



## **A REPORT OF 'INTERNATIONAL E-CONFERENCE ON SUSTAINABLE AND FUTURISTIC MATERIALS (SFM-2021)'**

*Organized by*

Gondia Education Society's  
Department of Chemistry, J. M. Patel Arts, Commerce & Science College, Bhandara  
International Research Centre and Department of Chemistry,  
Kalasalingam Academy of Research and Education, Krishnankoil

And

Amar Sewa Mandal's  
Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur

**Date: 29-30<sup>th</sup> November, 2021**

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Two Day International E-Conference on Sustainable and Futuristic Materials (SFM-2021) was organized jointly by *International Research Centre and Department of Chemistry, Kalasalingam Academy of Research and Education, Krishnankoil, Department of Chemistry, J. M. Patel Arts, Commerce and Science College, Bhandara And Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur* on 29-30<sup>th</sup> November 2021.

Prof. M. Swaminathan (Convener, SFM-2021), Prof. Rakhee Gupta (National Convener, Secretary - Central Zone, ACT, Jaipur), Dr. Dattatri K. Nagesha (Dean, School of Advanced Sciences, KARE), Prof. Dr. Brijesh Pare (President, ACT, Ujjain), Dr. Smeetaa Wanjari (Treasurer, Amar Seva Mandal, Nagpur), Dr. Vikas Dhomne (Principal, J. M. Patel College, Bhandara), Dr. Dilip Badwaik (Principal, Kamla Nehru Mahavidyalaya, Nagpur) were virtually presided over the Inaugural function of this conference on 29<sup>th</sup> November 2021.

This Research Convention-2021 was organized through Association of Chemistry Teachers (ACT), Mumbai. 'Researchers should try to synthesize carbon neutral, long term, low-cost Sustainable and Futuristic Materials with minimum Environmental impact', said Dr. Anupam Agnihotri (Director, Jawaharlal Nehru Aluminium Research Development and Design Centre, Nagpur) in his Chief Guest address during the inauguration of Conference.

Guest of Honour Dr. Smeetaa Wanjari, congratulated all the Academicians and the Organizing Committee for the success of the Conference and also inaugurated the Souvenir of the conference SFM-2021 virtually. Prof. M. Swaminathan in his welcome address briefed the importance of organization of such research convention. 'Number of such research convention



are in pipeline under the Association of Chemistry Teachers during the session 2021-22' added Prof. Rakhee Gupta (National Convener and Secretary, Central Zone-ACT, Jaipur) during her address.

'Association of Chemistry Teachers is always trying to bring Innovative Research platform through convention for Teachers, Academicians and Scholars for the development of smart materials' said Prof. Brijesh Pare in his presidential address.

Principal Dr. Vikas Dhomne in his introductory remark said that, this conference will provide common platform to the Academicians, Researchers, Scientists, Teachers, Budding Scientists, Aspirant students and Entrepreneurs. I hope that, this conference will be meaningful, relevant, purposive, interactive and will prove as excellent platform for dealing with all issues related to sustainable materials, he added further.

Dr. Dilip Badwaik (Principal, Kamla Nehru Mahavidyalaya, Nagpur) welcomed the participants through his introductory speech. Dr. Veena Mahajan (Assistant Professor & Head, Department of Zoology, J. M. Patel College, Bhandara) conducted the proceedings of the inaugural function while Prof. Wasudeo Gurnule (Organizing Secretary, SFM-2021) proposed the vote of thanks.

Conference was consisting of five sessions. Technical sessions on Day-I was chaired by Professor Dr. Helen P. Kavitha, (SRM University, Chennai). Prof. Dr. Sreekantha B. Jonnalagadda (University of KwaZulu-Natal, Durban, South Africa) delivered invited speech on the topic 'Novel materials as recyclable catalyst for organic synthesis and water treatment' while Dr. M. V. Reddy (CETEES, Canada) delivered his speech on 'Electrochemistry of Lithium Battery Material'.

On Day-II sessions were chaired by Dr. Hemant Pande, (Vice President, ACT West Zone), Nagpur. Prof. B. Neppolian (SRM University, Chennai) had delivered his speech on "Ultrasonic assisted  $\text{TiO}_2$  based photocatalyst for enviromental remediation" while Dr. Chinnakonda S. Gopinath (National Chemical Laboratory, Pune) delivered his talk on the topic "Solar energy to chemical energy conversion through assembled catalyst".

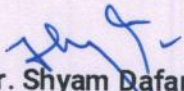
Overall, 3968 participants were registered for the Conference, more than 200 oral presentations and 95 poster presentations were presented by participant virtually. Dr. R. B. Lanjewar, Dr. M. R. Patle, Dr. S. Ghoderao, Dr. I. Muthuvell, Dr. Vijendrasingh Solanki, Dr. Selvapalam, Dr. L. P. Nagpurkar chaired the session for oral & poster presentation. Dr. Rashmee Dubey conducted the proceedings and Shri. Y. U. Rathod proposed vote of thanks on second day of the E-Conference.

Principal, Dr. Vikas Dhomne, Dr. D. S. Badwaik along with Dr. W. B. Gurnule Organizing Secretary, Dr. S. W. Dafare Co-convenor, Dr. Karthik Panicker (IQAC-Coordinator), Mr. Y. U. Rathod Joint Secretary of the Conference, Dr. A. M. Ghatole, Dr. S. B. Zanje, Dr. G. B. Tiwari, Dr. S. K. Tadavi and all members of Organizing Committee worked hard for the success of the Conference.

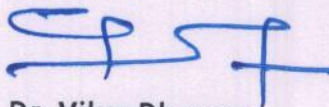


More than 100 full length research papers were received for the publication in the Conference and nearby 220 abstracts were published in Souvenir of the Conference. E-Certificates were distributed to all participants.

Sr. No.	Events	Links For Events
1	Registration Link	<a href="https://forms.gle/JFYKZXbdsPyHVfZA">https://forms.gle/JFYKZXbdsPyHVfZA</a>
2	Zoom Link Day-I	<a href="https://us02web.zoom.us/j/85349477553?pwd=aktyeDNiWVN4d1BxekhBTzluMUhUQT09">https://us02web.zoom.us/j/85349477553?pwd=aktyeDNiWVN4d1BxekhBTzluMUhUQT09</a>
3	Zoom Link Day-II	<a href="https://us02web.zoom.us/j/85349477553?pwd=aktyeDNiWVN4d1BxekhBTzluMUhUQT09">https://us02web.zoom.us/j/85349477553?pwd=aktyeDNiWVN4d1BxekhBTzluMUhUQT09</a>
4	You-Tube Link Day-I	<a href="https://www.youtube.com/watch?v=Qu3LP_mWbgs">https://www.youtube.com/watch?v=Qu3LP_mWbgs</a>
5	You-Tube Link Day-II	<a href="https://www.youtube.com/watch?v=eXPkCB6KKCU">https://www.youtube.com/watch?v=eXPkCB6KKCU</a>
6	Oral Presentation Day-I	1. <a href="https://meet.google.com/nrz-pxqz-pwd">https://meet.google.com/nrz-pxqz-pwd</a> 2. <a href="https://meet.google.com/dmq-mbuk-pea">https://meet.google.com/dmq-mbuk-pea</a> 3. <a href="https://meet.google.com/pdx-zzze-znr">https://meet.google.com/pdx-zzze-znr</a>
7	Oral Presentation Day-II	1. <a href="https://meet.google.com/vue-nhfu-pog">https://meet.google.com/vue-nhfu-pog</a> 2. <a href="https://meet.google.com/vpo-hy wz-my i">https://meet.google.com/vpo-hy wz-my i</a> 3. <a href="https://meet.google.com/htm-cvwd-fyw">https://meet.google.com/htm-cvwd-fyw</a> 4. <a href="https://meet.google.com/zae-wwfs-wag">https://meet.google.com/zae-wwfs-wag</a>
8	Poster Presentation Day-II	1. <a href="https://meet.google.com/htm-cvwd-fyw">https://meet.google.com/htm-cvwd-fyw</a> 2. <a href="https://meet.google.com/kmp-ucnk-xae">https://meet.google.com/kmp-ucnk-xae</a>
9	Feedback Link	<a href="https://forms.gle/vNrAcepHyWsoZo7S9">https://forms.gle/vNrAcepHyWsoZo7S9</a>

  
**Dr. Shyam Dafare**

Head, Department of Chemistry  
J.M. Patel Arts, Commerce & Science College,  
Bhandara  
**H.O.D.**  
**Department of Chemistry**  
**J.M. Patel College, Bhandara**

  
**Dr. Vikas Dhomne**

Principal  
J.M. Patel Arts, Commerce & Science College,  
Bhandara  
**Principal**  
**J.M. Patel College**  
**Bhandara**







## ACT Research Convention 2021



### International E-Conference on Sustainable and Futuristic Materials (SFM-2021)

- Organized By -

International Research Centre and Department of Chemistry,  
Kalasalingam Academy of Research and Education,  
Krishnankoil

Gondia Education Society's  
Department of Chemistry  
J. M. Patel Arts, Commerce and Science College, Bhandara

and  
Amar Sewa Mandal's  
Department of Chemistry  
Kamla Nehru Mahavidyalaya, Nagpur.

**29<sup>th</sup> - 30<sup>th</sup> NOVEMBER, 2021**

### Editors

Prof. M. Swaminathan

Prof. W. B. Gurnule

Dr. S. W. Dafare





# ACT Research Convention 2021 International E-Conference on Sustainable and Futuristic Materials (SFM-2021)

Organized by

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**Department of Chemistry, J. M. Patel Arts, Commerce and Science College, Bhandara**

Re-accredited 'B' Grade by NAAC, Awarded the Status of 'College with Potential for Excellence' by UGC (Phase II)  
Awarded Star College Scheme by DBT of GOI

And

Amar Sewa Mandal's

**Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur**  
(Reaccredited A+ grade with CGPA of 3.53)

- DATE :-

**29<sup>th</sup> & 30<sup>th</sup>**  
November, 2021

-: TIME :-

2 pm to 5 pm

**Inaugural Session (2.00 to 2.45 PM IST)**

**Master of Ceremony : Dr. Veena Mahajan**

Welcome address by Convener	:	<b>Prof. M. Swaminathan</b> Convener, SFM-2021
About Research Convention	:	<b>Prof. Rakhee Gupta</b> National Convener, Secretary-Central Zone, ACT, IIS (Deemed to be University), Jaipur
Introductory Speech	:	<b>Dr. D. S. Badwaik</b> Principal, Kamla Nehru Mahavidyalaya, Nagpur <b>Dr. V. P. Dhomne</b> Principal, J. M. Patel College, Bhandara
Felicitation by Dean	:	<b>Dr. Dattatri K. Nagesha</b> Dean, School of Advanced Sciences, KARE
Inaugural Address	:	<b>Prof. D. V. Prabhu</b> General Secretary, ACT
Guest of Honour	:	<b>Dr. Smeetaa Wanjarri</b> Treasurer, Amar Sewa Mandal, Nagpur
Chief Guest Address	:	<b>Dr. Anupam Agnihotri</b> Director, Jawaharlal Nehru Aluminium Research Development & Design Centre, Nagpur
Presidential Address	:	<b>Prof. Dr. Brijesh Pare</b> President, ACT, Madhav Science Post Graduate College Ujjain
Vote of Thanks	:	<b>Prof. W. B. Gurnule</b> Organizing Secretary, SFM-2021, Secretary-West Zone, ACT

## DAY 1 29 November 2021

### TECHNICAL SESSION-I (Chair : Prof. Dr. Helen P. Kavitha, SRM University, Chennai)

TIME	CATEGORY	SPEAKER	TOPIC
2.50-3.30 PM	Keynote Speech	<b>Dalila HAMMICHE</b> Université Abderrahmane Mira-Bejaia, Algérie	Plastics Derived from Biomass
3.30-4.10 PM	Invited Speech	<b>Prof. Sreekanth B Jonnalagadda</b> University of KwaZulu-Natal, Durban, South Africa	Novel materials as recyclable catalysts for organic synthesis and water treatment
4.10-4.50 PM	Invited Speech	<b>Dr. M V Reddy</b> Centre of Excellence in Transportation Electrification and Energy Storage (CETEES), Canada	Electrochemistry of Lithium Battery Materials

Time 4.50 - 5.50 : ORAL PRESENTATION

## DAY 2 30 November 2021

### TECHNICAL SESSION-II (Chair : Dr. Hemant Pande, Vice-President of ACT West Zone)

TIME 1.00-3.15 PM : Oral Presentations and Poster Presentations

TIME	CATEGORY	SPEAKER	TOPIC
3.15-4.00 PM	Invited Speech	<b>Prof. B. Neppolian</b> SRM Research Institute & Technology, SRM University, Chennai, India	Ultrasonic assisted TiO <sub>2</sub> based photocatalysts for Environmental Remediation
4.00-4.45 PM	Invited Speech	<b>Dr. Chinnakonda S. Gopinath</b> National Chemical Lab., Pune, India	Solar Energy to Chemical Energy Conversion through assembled catalysts



## ACT Research Convention 2021



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- DATE :-

**29<sup>th</sup> & 30<sup>th</sup>**  
November, 2021

-: TIME :-

2 pm to 5 pm

#### Association of Chemistry Teachers

Association of Chemistry Teachers (ACT), established in 2000 completed 20 years of dedicated service to the academic community. ACT is at the forefront of innovation in Chemistry education through its manifold activities-national and international conferences, symposia and training workshops for teachers, students, researchers and industry chemists. The annual National Convention of Chemistry Teachers (NCCT), Concept test in Chemistry for undergraduate students, Research convention, Celebration of National Chemistry Day on December 10 and publication of a newsletter are some of the regular activities. Chemistry Popularization workshops have been organized in collaboration with Royal Society of Chemistry, London, UK and DST, New Delhi. ACT is involved in the Indian National Chemistry Olympiad programme and gives academic support to a peer reviewed Chemistry journal, GP Globalize Research Journal of Chemistry (ISSN 2581 5911) Website: [www.associationofchemistryteachers.org](http://www.associationofchemistryteachers.org) / Research Convention focusing Research aspects for Post graduate students, research Scholars and faculty members through a series of webinars was started in 2020, to celebrate the two decades of dedicated service of ACT and continued this year also. In this ACT Research Convention series, an international Conference on " Sustainable and futuristic materials" is jointly organized by Kalasalingam Academy of Research and Education, Krishnankoil, J. M. Patel College, Bhandara and Kamala Nehru Mahavidyalaya, Nagpur.

#### About Kalasalingam Academy of Research and Education (KARE)

Kalasalingam Academy of Research and Education (KARE) formerly Arulmigu Kalasalingam college of Engineering was established in year-1984 by great Philanthropist and altruist Kalivallaluru T. Kalasalingam. KARE is located at the pristine foothills of scenic Western Ghats, in Krishnankoil, 10 KM. North of Srivilliputtur, an ancient town of religious significance. The college obtained the Deemed to be status in 2006. The Institution has been serving the society for Thirty six long years and it caters to the needs of the students from all walks of the society. KARE offers UG programmes, PG programmes and Ph.D., programmes. It is the first Institution in India to introduce a special B. Tech., programme in engineering for the differently abled (speech and hearing impaired) students. The Institution has been re accredited by NAAC with 'A' grade The University has signed MoUs with a number of Universities and Institutes worldwide for research collaborations and for faculty students exchange programmes. In nirf ranking, KARE has attained 50th rank in the university category.

KARE has got the state of the art International Research Centre (IRC) with splendid high end instruments for advanced research in material sciences and life sciences. Training programs and workshops are being organized regularly for research scholars in the focused areas of materials characterization and analysis. This centre caters the needs of the research students and faculties of other educational institutions in addition. It has received DST funding to establish the National Center for Advance Research in Discrete Mathematics. The Department of Chemistry, Kalasalingam Academy of Research and Education (Deemed to be University), one of the oldest departments of the University offers B.Sc., M.Sc., M. Phil. and Ph.D., programmes in Chemistry. The faculties of the Department are highly competent, intellectual and devoted. They are not only involved in teaching but also in advanced research. The Department has well equipped research laboratories, internet and library facilities which lead to pour innovative ideas to the students.

#### Kamla Nehru Mahavidyalaya, Nagpur

Kamla Nehru Mahavidyalaya a renowned educational institute was established in 1983 by founder President Late Shri Govindraoji Wanjari for the noble mission of imparting knowledge. The college is forging ahead under the dynamic leadership of President Dr. Smt. Suhasini Wanjari and the Secretary of Amar Sewa Mandal Adv. Abhijit Wanjari. The college has been re-accredited with A+ by NAAC, Bangalore with CGPA of 3.53.

The institute has catered to the needs of diversified learners with reference to running several courses in Faculty of Science, Commerce, Arts and Management studies at Undergraduate, Postgraduate and Doctoral levels. The College has Ph.D., programmes in Chemistry, Physics, Electronics, Computer science, Mathematics and Commerce with more than 300 research publications in refereed National and International Journals. The College has also been associated with several International Universities like University of Huddersfield UK, University of Cambridge, International Network for Quality Assurance Agencies in Higher Education (INQAAHE) and Asia Pacific Quality Network (APQN).

**E-Certificate will be provided to all the participants on submission of Feedback form.**



## J. M. Patel Arts, Commerce & Science College, Bhandara

After making a modest beginning in 1964, Gondia Education Society's J. M. Patel College, Bhandara, has since grown into a huge, prestigious and reputed seat of learning not only in Vidarbha, but in the entire state. Presently we offer several undergraduate and post graduate courses in the faculties of Humanities, Commerce and Management and Science & Technology. Good academic environment, excellent infrastructure, highly qualified and dedicated staff - all these features make the institution a premier seat of learning. This fact has been recognized by the NAAC also. The college has been awarded the status of College with Potential for Excellence' (Phase II) by the University Grants Commission, New Delhi. The college has been recognised as 'Centre for Higher Learning and Research' by the Rashtrasant Tukdoji Maharaj University, Nagpur. With a rich legacy of more than five decades, the institution has always remained true to its mission of providing equitable access to education to the socially and financially challenged sections of the society.

### -: EMINENT SPEAKERS :-



**Dr. M V Reddy**

Institute of Research Hydro-Québec  
Centre of Excellence in Transportation  
Electrification and Energy Storage  
(CETES) Canada



**Prof. Sreekanth B Jonnalagadda**

Senior Professor of Chemistry,  
School of Chemistry & Physics,  
Westville Campus, University of  
KwaZulu-Natal, Durban, South Africa.



**Prof. Dalila Hammiche**

Laboratoire Des Matériaux Polymères  
Avancés Université Abderrahmane  
Mira-Bejaia Route de Targa  
Ouzemour, Algérie



**Dr. Chinnakonda S. Gopinath**

Outstanding Scientist,  
National Chemical Lab.,  
Pune



**Prof. B. Neppolian**

Professor & Dean (Research)  
SRM Research Institute & Technology,  
SRM University, Chennai, India

### INVITATION

It gives us immense pleasure to invite you for participation in two days International Conference on "Sustainable Futuristic Materials" (SFM-2021) to be held virtually during 29th-30th November 2021 organized by International Research Centre and Department of Chemistry, Kalasalingam Academy of Research and Education, Krishnankoil in collaboration with Department of Chemistry J. M. Patel College, Bhandara & Department of chemistry Kamala Nehru Mahavidyalaya, Nagpur.

### ABOUT CONFERENCE

It is a platform to share latest and innovative ideas with peers and senior group of people by eminent personalities from different part of the world. This conference of two days will give valuable insights not only in chemistry but physical, biological and material sciences along with Industry-Academia Interaction. The researchers can expand their knowledge through poster and oral presentations

### Theme of Conference

Material Science	Green Chemistry	Sustainable Environment
Polymer Science	Organometallic Chemistry	Photochemistry
Catalysis	Bioinorganic Chemistry	Biotechnology
Organic Synthesis	Supramolecular Chemistry	Applied Sciences
Coordination Chemistry	Agrochemistry	Life Sciences
		Luminescent materials

### Registration Link-

<https://forms.gle/JFYKZXbdsPyHVfZA>

Participant Profile	Indian Delegates	International Delegates
Only Attendees	Nil	Nil
Presentation fees (Presentation has to be done by only one participant) (Oral/ Poster)	Rs. 200	\$50
Publication Charges of selected papers in Peer reviewed journal with high Impact FactorPublication	Rs. 500	\$50
Few selected papers will be published in SCOPUS, Web of Science and UGC CARE listed journals.		

### Bank Account Details (NEFT / RTGS) Fees payable online by NEFT only

Name : Wasudeo Balaji Gurnule  
Account No. : 51110629116  
Bank Name : State Bank of India  
Branch Name : Besa, Nagpur  
IFSC Code : SBIN0070875

Date of Submission of Abstract: 25th November 2021.  
Date of Submission of Full length paper : 26th November 2021.

#### FOR ANY QUERIES CONTACT

Dr. W. B. Gurnule - wbgurnule@gmail.com, 9096672499  
Dr. S. W. Dafare - s\_dafare@rediffmail.com, 9422833877  
Mr. Y. U. Rathod - yashpalrathod2012@gmail.com, 9326145861

### Call for Abstract / Papers

Interested researchers (Students/Faculty/Scientists/Research Scholar) working in the theme area of conference may send their original research work in the form of abstracts not exceeding 250 words in MS-word. Authors should send abstract for oral and poster presentation on following email id separately

Poster-Presentation  
[sunilzanje@gmail.com](mailto:sunilzanje@gmail.com)

Oral-presentation  
[saminatadavi30@gmail.com](mailto:saminatadavi30@gmail.com)

For full length article  
[ajayghatole5@gmail.com](mailto:ajayghatole5@gmail.com)



## Paper Submission Guidelines

- Papers are invited on Sustainable Futuristic Materials in multidisciplinary areas of Chemistry, Physics & Biology.
- Papers shall be typed only in word format Times New Roman, Font size 12 and lines pacing 1.5 with 1" margin on all sides.
- Paper should not exceed 2500 words (including abstract) & pages of A4 size paper (including graphs, tables and appendices).
- The beginning of the paper should contain the following information at the top- Title of the paper, Author's name, Institution name and address, Email-ID and contact number.
- References should be in IEEE style.
- Authors have to abide by UGC prevention of plagiarism norms with maximum acceptable level of similarity of 10%.
- The author shall give a letter of undertaking regarding the originality of the paper written.
- Abstract & full length paper shall be sent on Email ID: [ajay.ghatole5@gmail.com](mailto:ajay.ghatole5@gmail.com)
- Author & Co-author have to register separately.
- Authors can send the recorded videos of their presentation in advance, if unable to present in virtual conference due to any unavoidable reason.

### Chief Patrons

<b>Hon'ble Shri Rajendraji Jain</b> Secretary Gondia Education Society	<b>Dr. K. Sridharan</b> Chancellor	<b>Dr. S. Shasi Anand</b> Vice president	<b>Dr. R. Nagaraj</b> Vice Chancellor	<b>Dr. V. Vasudevan</b> Registrar	
<b>Prof. Brijesh Pare</b> President, ACT	<b>Hon'ble Shri Nikhil R. Jain</b> Director Gondia Education Society	<b>Prof. D. V. Prabhu</b> General Secretary	<b>Hon'ble Dr. Suhasini Wanjari</b> President Amar Sewa Mandal	<b>Hon'ble Adv. Abhijit Wanjari</b> Secretary Amar Sewa Mandal	<b>Hon'ble Dr. Smeeta Wanjari</b> Treasurer Amar Sewa Mandal

### Organizing Chairs

**Dr. Seshdri Srinivasan**  
Director, IRC

**Dr. Dattatri K Nagesha**  
Dean, School of Advanced Sciences, KARE.

### International Advisory Committee

Dr. Narsingh B. Singh, Baltimore USA  
Prof. B. K. Deshmukh, Midland USA  
Dr. Mukund S. Chorghade, USA  
Prof. Ajayan Vinu, University of Newcastle, Australia  
Dr. Pankaj Koinkar, Tokushima University, Japan  
Prof. Bernhard Middendorf, University of Kassel, Germany  
Prof. Md. Abu Bin Hasan Susan, University of Dhaka, Bangladesh

Prof. Thomas Bier, Freiberg, Germany  
Prof. Aziz Ahmed, Malaya University, Malaysia  
Prof. Rameshwar Adhikari, Tribhuvan University, Nepal  
Prof. N. B. Singh, Sharda University, Greater Noida  
Prof. Gladys Completo, University of Philippines, Philippines  
Prof. Klaus Kümmerer, Leuphana University Lüneburg, Germany  
Prof. Sónia Carabineiro, New University of Lisbon, Portugal

### National Advisory Committee

Prof. R. S. Mali	Prof. K. S. Vajpai
Prof. N. S. Gajbhiye	Prof. A. K. Singh
Prof. A. S. Aswar	Dr. Navinchandra Shimpi
Dr. Hemant Pande	Prof. M. K. Lande
Prof. S. P. Prasad	Dr. V. S. Shrivastava
Prof. H. D. Juneja	Dr. Pravin Singare
Prof. N. N. Karde	

### Local Organizing Committee

Dr. Girdharilal Tiwari	Dr. Samina Tadavi
Dr. Sunil Zanje	Dr. Sudesh Ghoderao
Dr. Ajay Ghatole	Dr. U. C. Jain
Prof. S. M. Gadegone	Dr. M. S. Wagh

### Organizers

**Dr. V. P. Dhomne**  
Principal  
J. M. Patel Arts, Commerce &  
Science College, Bhandara

**Dr. D. S. Badwaik**  
Principal  
Kamla Nehru Mahavidyalaya,  
Nagpur

<b>Prof. M. Swaminathan</b> Convenor SFM-2021	<b>Dr. Rakhi Gupta</b> National Convenor	<b>Dr. N. Selvapalam</b> Co-convenor SFM-2021	<b>Dr. S. W. Dafare</b> Co-convenor SFM-2021	<b>Prof. W. B. Gurnule</b> Organizing Secretary SFM-2021	<b>Mr. Yashpal Rathod</b> Joint Secretary SFM-2021
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## पटेल महाविद्यालयात आंतरराष्ट्रीय ई-परिषद

■ भंडारा, ब्युरो. जे.एम. पटेल महाविद्यालय, भंडारा, कमला नेहरु महाविद्यालय, नागपूर, आंतरराष्ट्रीय संशोधनकेंद्र, किशननकॉयल, तामिलनाडू आणि असोसिएशन ऑफ के मे स्टूडी टिचर्स मुंबईच्या संयुक्त विद्यमाने दोन दिवसीय आंतरराष्ट्रीय ई-परिषदेचे आयोजन करण्यात आले.

परिषदेचे उद्घाटन जवाहरलाल नेहरु अॅल्युमिनीयम रिचर्स व डिझाईन सेंटरचे संचालक डॉ.अनुपम अग्नीहोत्री यांच्या हस्ते करण्यात आले. ई-परिषदेला देश विदेशातून प्रतिसाद मिळाला असून 20 देशांसह भारतातून 3,968 शास्त्रज्ञ, संशोधक व प्राध्यापकांशी सहभाग नोंदविला. या परिषदेचे 5 सत्रांत आयोजन करण्यांत आले. यामध्ये डॉ.डालिया हमाची (अल्जेरिया), डॉ.श्रीकांत जोनालगाडा (साऊथ आफ्रिका),

डॉ.एम.व्ही.रेड्डी (कॅनडा), डॉ.बी. नेपोलियन (एस.आर.एम. विद्यापीठ, चेन्नई) व डॉ.चिन्नाकोंडा गोपिनाथ (एन.सी.एल. पुणे) यांनी मार्गदर्शन केले.



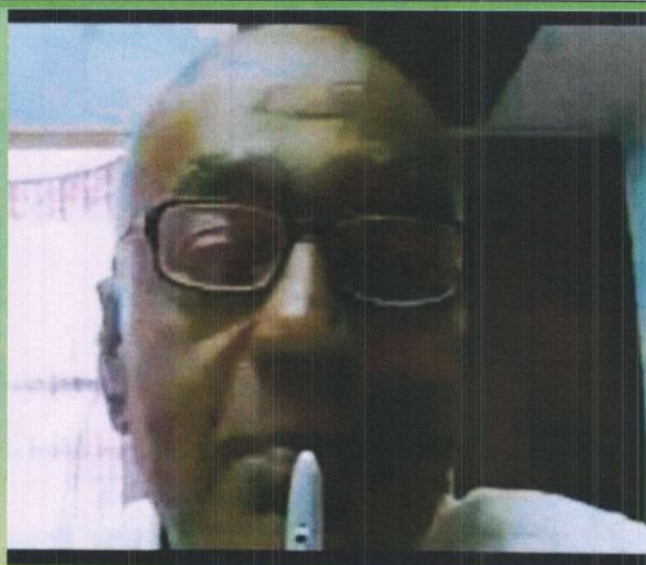
ई-परिषदेला 300 हून अधिक संशोधकांनी संशोधन पत्रिकेचे मौखिक प्रस्तुतीकरण सादरकेल व 100 पेक्षा अधिक शोधपत्रिका प्रसिद्धीकरीता सादर

केली. आयोजनासाठी संस्थेचे व्यवस्थापन मंडळ, प्राचार्य डॉ.विकास ढोमणे, प्राचार्य डॉ.डी.एस. बडवाईक, डॉ. डब्ल्यू. गुरनुले, डॉ.एस.डब्ल्यू. डफरे, प्रा.यशपाल राठोड, डॉ.जी.बी. तिवारी, डॉ.सुनील झंजे, डॉ.समिना तडवी, डॉ.अजय घाटोळे, डॉ.विना महाजन, डॉ.रश्मी दुबे यांनी परिश्रम घेतले.



## 'International E-Conference on Sustainable and Futuristic Materials-(SFM-2021)

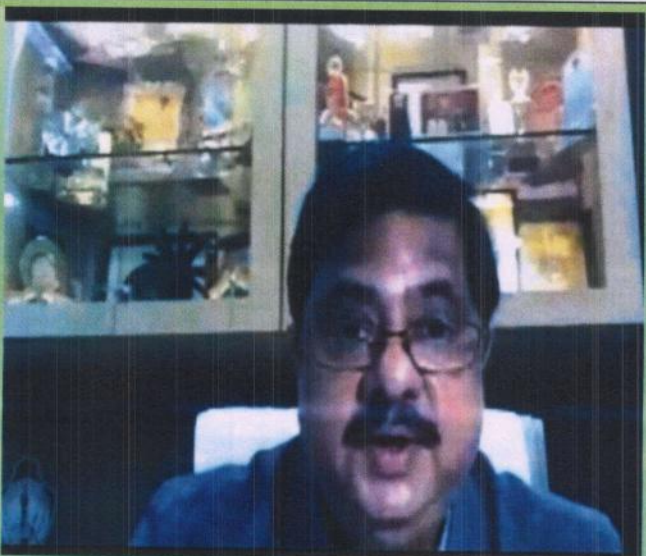
### SNAPSHOTS



Prof. M. Swaminathan (Convenor, SFM-2021) delivered the Welcome Address



Prof. Rakhee Gupta (National Convenor, Secretary - Central Zone, ACT, Jaipur) shared her views



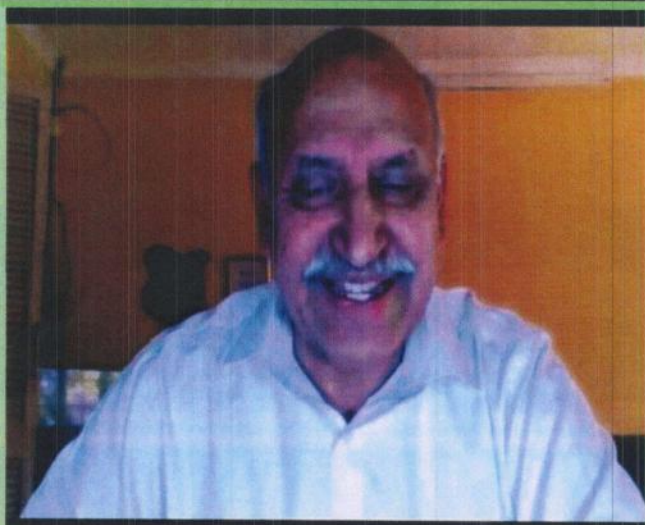
Dr. Vikas Dhomne (Principal, J. M. Patel College, Bhandara) gave Introductory remarks



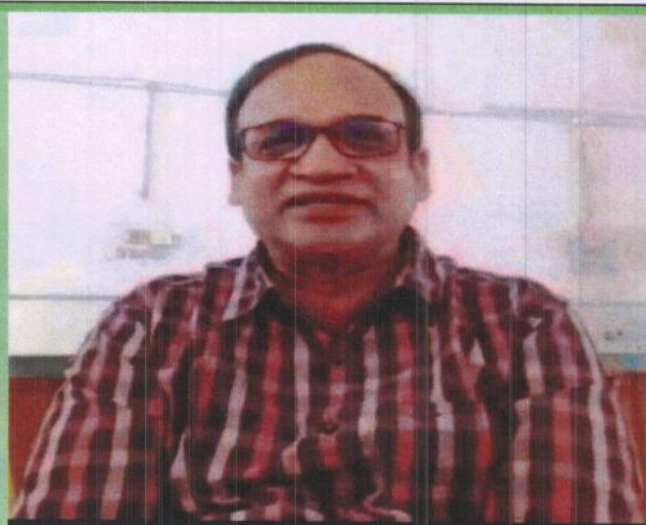
Chief Guest Dr. Anupam Agnihotri (Director, Jawahar Lal Nehru Aluminium Research Development and Design Centre, Nagpur) shared his words of wisdom



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Dr. Sreekantha B. Jonnalagadda (University of KwaZulu-Natal, Durban, South Africa) delivered presentation on 'Novel materials as recyclable catalysts for organic synthesis and water treatment'



Dr. Brijesh Pare (President, ACT, Ujjain) congratulated to the organizers of the International E-Conference



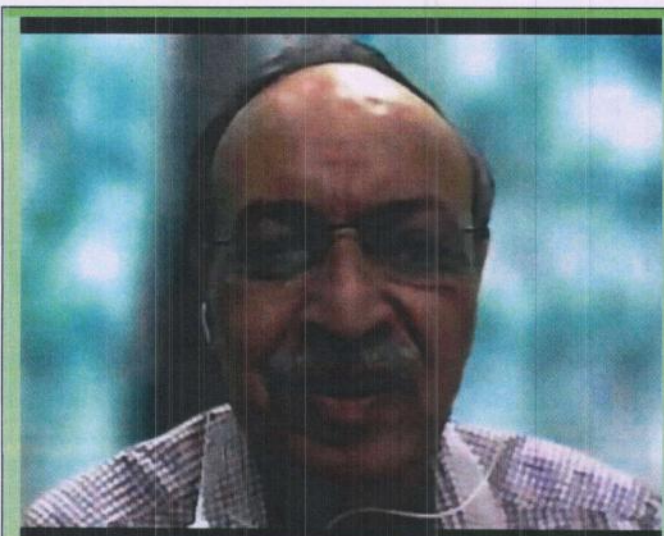
Dr. Smeetaa Wanjari (Treasurer, Amar Seva Mandal, Nagpur) inaugurated the Souvenir of E-conference



**'International E-Conference on Sustainable and Futuristic Materials-(SFM-2021)**



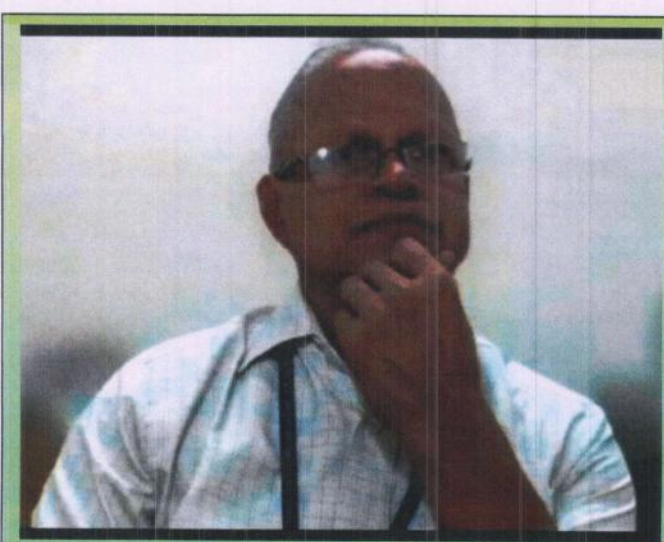
Prof. Wasudeo Gurnule (Organizing Secretary, SFM-2021) proposed the Vote of Thanks




Dr. Hemant Pande (Vice-President of ACT West Zone) chaired the Technical Session-II




Dr. Shyam Dafare (Co-convenor, SFM-2021) interacting with the Speakers



Dr. Chinnakonda S. Gopinath (National Chemical Laboratory, Pune) delivered presentation on Solar Energy to Chemical Energy conversion with Assembled Catalysts

  
**Dr. Shyam Dafare**  
 Head, Department of Chemistry  
 J. M. Patel College, Bhandara  
**H.O.D.**  
 Department of Chemistry  
 J.M. Patel College, Bhandara



  
**Dr. Vikas Dhomne**  
 Principal  
 J. M. Patel College, Bhandara  
**Principal**  
 J.M.Patel College  
 Bhandara