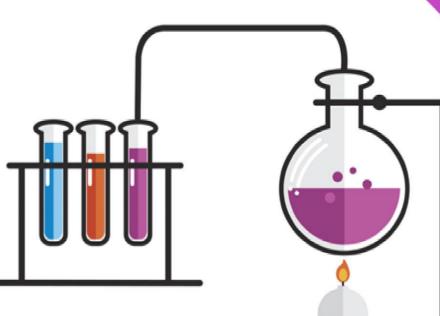
Report On One Day International **E-Conference**

"MULTIFUNCTIONAL ADVANCED MATERIALS" Friday, 07th August, 2020_

ORGANIZED BY

DEPARTMENT OF CHEMISTRY

Mahatma Gandhi Arts, Science and Late N. P. Commerce College Armori. Dist. Gadchiroli (M.S.)



E - Conference on 'Multifunctional Advanced Materials (ICMAM-2020)"

A Report

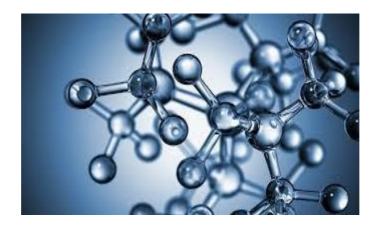
on

One Day International E-Conference

On

"MULTIFUNCTIONAL ADVANCED MATERIALS (ICMAM-2020)"

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DEPARTMENT OF CHEMISTRY MAHATMA GANDHI ARTS, SCIENCE AND LATE N. P. COMMERCE COLLEGE ARMORI, DIST. GADCHIROLI (M.S.)

CONTENTS

- 1. Background
- 2. Aims & Objectives
- **3.** Scope of conference
- 4. ICMAM-2020 covered Topic
- 5. Platform of Workshop and Organizing Committee
- 6. Inaugural Session and Expert Talks
- 7. Participants
- 8. Acknowledgements & Closing Ceremony
- 9. Annexures
- **Annexure I :** Program Scheduled
- **Annexure II :** Brochure, Certificate
- □ Annexure III : Glimpse of Events and press coverage
- □ Annexure IV : Feedback Response

1. Background

ICMAM-2020 International e- Conference is a medium to bring together researchers, scientists, and industry professionals to converse on innovative ideas and diverse topics on multifunctional advanced materials. In this conference participants joined from different countries like Japan, Korea, Thailand, Nepal, Nigeria etc. The conference was conducted on Zoom platform and the participants who were not able to join The Zoom meeting application were connected through YouTube platform. Thousands of attendees have been benefited in numerous ways from this conference. The organizers invited four International Keynote Speakers who addressed audience and shared knowledge and their well-heeled experience of application about different advance material in their respective companies and countries. The e-conference is one such educational intervention planned to provide opportunity to participants for understanding in recent advances in chemical science research.

2. Aims & Objectives

This workshop would focus on

- To know recent advances in material science Research.,
- To interact researchers, industry practitioners, academicians, research scholars and students With strong research orientation.
- Encourage rural area scholars in the area of research.
- Provide forum for developing, discussing and presenting new ideas and the emerging Phenomena in digital transformation.

3. Scope of conference

Materials are probably more deep-seated in our culture than most of us realize. Transportation, housing, clothing communication, reaction and food production and virtually every segment of our daily lives is influenced to one degree or another by materials. Materials have contributed to the advancement of a number of technologies, including medicine and health, information and communication, national security and space, transportation, structural materials, arts and literature, textiles, personal hygiene, agriculture and food science, and the environment. The excitement of Material Science and Engineering is amplified by its intimate connections with other disciplines and its impact on daily life. These inter-disciplinary interactions between the Material sciences and other

fields in the development of new materials and their applications also require close interaction and clear communication between scientists working in diverse areas.

As the contribution of materials science and engineering to other disciplines increases, it will become necessary for scientists of all backgrounds to better understand how to undertake collaborative activities with other disciplines. Although it is not feasible for scientists to master a vast body of scientific knowledge over many disciplines, scientists must gain the skills that will allow them to master specific topics. The presentations given by keynote speakers represent an attempt to present a relatively brief overview of Materials Science and Materials Engineering and their roles in the present day world. Thus, emphasis is placed on the relationship between structure and properties of materials, starting with the concept of structure 'at three levels – crystal structure, microstructure, and molecular structure. It will also be an attempt to examine the four components that make up the whole gamut of the discipline of materials science and engineering and their interrelationship. Furthermore, the presentation will try to decipher the needs to study Materials Science and Engineering as well as take a look at classification of Engineering Materials and their importance in various live endeavours.

4. ICMAM-2020 covered the following research and development areas/fields

- □ Composite material, Nanomaterial, Nano-sensor.
- □ Concept of electronic band structure
- □ Calculation of electron and hole transport in solar cell
- Density and functional theory
- □ Nano-ferrites, semi-conductor materials
- □ Ferroelectric materials
- □ Nano biosensor, nano electronics

5. Platform of Workshop The e- conference was held on online on

Zoom

You Tube





Organizing Committee

The organizing committee of the workshop was as follows:

Dr. L. H. Khalsa (Principal):	Organizing institution
Prof. S. M. Sontakke:	Convener
Dr. S. S. Kola:	Organizing Secretary
Dr. N. D. Bansod:	Organizing Secretary

6. Inaugural Session and Expert Talks

The first session of the conference started with welcoming and opening ceremony on zoom platform. The honorable principle of our college Dr. L. H. Khalsa welcomed the Keynote speakers and all the participants. Also, the convener Prof. S. M. Sontakke addressed the participants and gave a brief idea of the e-Conference and introduced 'Dr. Pankaj Koinkar'; the first keynote speaker.

Technical session

The first invited speaker of the e-conference was **Dr. Pankaj Koinkar**, Associate Professor, the Department of Optical Science, and Tokushima University, Japan. He delivered talk on "A Powerful Route to Produce Nanomaterial's via Laser Ablation Technique in Liquid and their Applications." After each technical session participants discuss their queries with resource persons.

Second invited Speaker **Dr. W. B. Gurnule** Associate Professor, the Department of Chemistry, Kamla Nehru Mahavidyalaya Nagpur, and Maharashtra, India noted on "Multifunctional material and its impact on society." Third invited speaker **Dr. D. O. Obada** Dept. of Mechanical Engineering, Ahmadu Bello University, Zaria, Nigeria expressed his views on "Density functional theory and the concepts of the electronics and band structure calculations of electron and hole transport layers in perovskite solar cells. Fourth invited speaker **Dr. B. P. Kafle**, Associate Professor Dept. of Chemical Science & Engineering Kathmandu University, Nepal expressed his views on generation photovoltaic cell.

7. Participants of the Program

In this e-Conference there was 2346 participants have done Registration and give feedback for program which includes, faculties, research scholars and post graduate students and industrialist from all over world. More than 5000 People have taken advantage on you tube platform though some of them not done registration due to limited seats. Overall, the program was Excellent and huge response from all over the world all the dignitaries and concern person attended the program and made it a very successful.

8. Acknowledgements & Closing Ceremony

Dr. Naresh D. Bansod expressed deep gratitude to the keynote speakers, participants, and aiding hands for making the e-conference successful; on behalf of organizing committee. **Dr. Satish Kola** anchored the e-conference.

Annexure I: Program Schedule

PROGRAM SCHEDULE	
Inaugural Program:	10:00 a.m10.30a.m.
Chairperson:	Honorable Dr. Lalsingh Khalsa Principal M. G. Arts, Science and Late N. P
	Commerce College, Armori.
Technical Session :I	10:30 a.m 11:15 a.m.
Invited speaker : -	Dr. Pankaj Koinkar
Topic :-	A Powerful Route to Produce Nanomaterial's via Laser Ablation Technique
Technical Session :II	11:15 a.m12:00 p.m.
Invited speaker : -	Dr. W. B. Gurnule
Topic :-	"Multifunctional material and its impact on society."
Technical Session :-III	12:00 a.m 12:45 p.m.
Invited speaker : -	Dr. D. O. Obada
Topic :-	Density functional theory.
Technical Session :IV	12:45 a.m. – 01:30 p.m.
Invited speaker : -	Dr. B. P. Kafle
Topic :-	Generation photovoltaic cell.
Online feedback from participants	01:30 p.m 01:45 p.m.
Closing Ceremony	01:45 p.m 02:00 p.m.

Annexure: II Brochure & Certificate



e- Conference Brochure



e- Conference Certificate



Annexure III: Glimpse of Events & Press Coverage

Principal Dr. L. H. Khalsa delivering Chairperson's address in inauguration.



प्राचार्य डॉ.लालसिंग खालसा यांचे प्रतिपादन
महाविद्यालयाच्यावतीने आंतरराष्ट्रीय ई-परीषद

आरमोरी 🗆 तालुका प्रतिनिधी

दिवसेंदिवस विज्ञान व तंत्रज्ञानाच्या क्षेत्रात गतीने बदल होत आहे. या होणाऱ्या बदलांची अद्यावत माहिती असणे आजची अपरिहार्य गरज झाली आहे असे प्रतिपादन महात्मा गांधी महाविद्यालयाचे प्राचार्य डॉ.लालसिंग खालसा यांनी केले.

भौतीकीय व रासायनिक क्षेत्रात नेंनो तंत्रज्ञान, नेंनो मटेरियल, नेंनो सेंसर, नेंनोफेरीटेन, नेंनोबायोसेंसर मधील नावीन्यपुर्ण संशोधन आणि त्याची उपयोगिता व विज्ञान क्षेत्रातील उपयोजन समजून येण्याच्या हेतूने महात्मा गांधी कला, विज्ञान आणि स्व.न.प.वाणिज्य महाविद्यालय आरमोरी येथील रसायनशास्त्र विभागाच्या वतीने महाविद्यालयाचे प्राचार्य डॉ.लालसिंग खालसा यांच्या मार्गदर्शनाखाली मल्टिफक्शन एडव्हांस मटेरियल या



विषयांवर आंतरराष्ट्रीय ई-परिषद आयोजन करण्यात आले होते.यावेळी परीषदेच्या प्रारंभी ते बोलत होते.

या आंतरराष्ट्रीय ई - परिषदेत टोकोशिमा विद्यापीठ जपान येथील, ऑप्टीकल सायन्स विभागाने प्रा.पंकज कोइनकर, रा.तु.म.नागपूर विद्यापीठाचे डॉ.डब्लू बी.गुरनुले, अमादू बेलो विद्यापीठ जरिया नायजेरिया येथील डॉ.डेब्लीड ओबाडा, नेपाल विद्यापीठाचे डाँ.मीम काफले यांनी साधन_व्यक्ती म्हणून सहभाग घेतला.

याप्रसंगी डॉ.पंकज कोईनकर यांनी पावरफुल रूट टू प्रोड्यूस नेंनो मटेरियल काया लेझर अवालेशन टेकनिक इन लिक्विड अॅण्ड देअर अलिकेशन या विषयावर आपळा शोधनिबंध सादर केला. त्यांनी एकविसाव्या शतकात नेंनो मटेरियल सायन्सचे असणारे महत्व आणि मौतिकी व रासायनिक क्षेत्रात नेंनो टेक्रोलॉजीची उपयोगिता ' यावर अम्यासपूर्ण मार्गदर्शन केले.

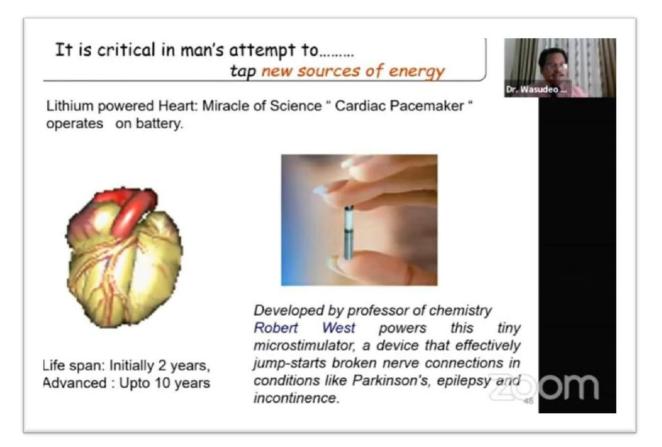
यावेळी दुसरे साधन व्यक्ती राष्ट्रसंत तुकडोजी महाराज नागपूर विद्यापीठातील कमला नेहरू महाविद्यालय नागपूरचे प्रा.डॉ.डब्ल्यु.बी.गुरनूले यांनी नॅनो इलेक्ट्रॉनिक्स, नॅनो बायोसेंसर, तसेच नॅनोफराइट यांचे महत्व विशद केले.

या परिषदेत देशविदेशातील २५६० प्राध्यापक व संशोधक यांनी नोंदणी केली होती. झूम ॲपवर १०० व्यक्ती जुळले होते, तर युट्युव लाईव्हवर ई - परिषदेचे लाईव्ह प्रसारण करण्यात आले. त्यात ३७०० सदस्य जुळले होते.

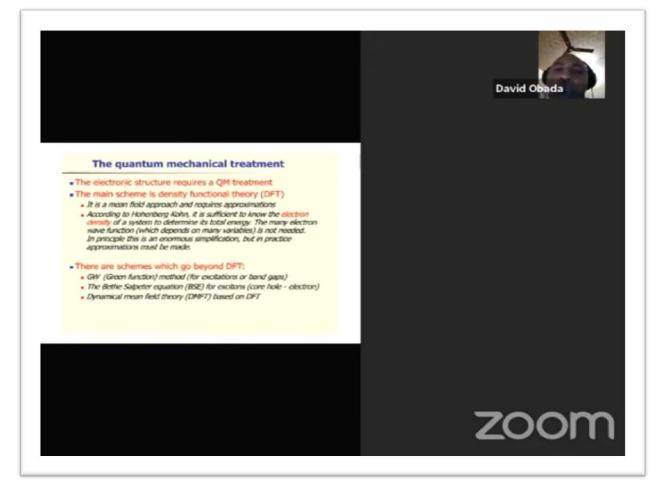
कार्यक्रमाच्या प्रास्ताविकातून रसायनशास्त्र विभाग प्रमुख सतेंद्र सोनटक्के यांनी परिषदेची भूमिका विशद केली. संचालन रसायनशास्त्र विभागाचे प्रा.डॉ.सतीश कोला यांनी केले तर आमार प्रा.डॉ.नरेश बन्सोड यांनी मानले. तंत्रसहाय्य प्रा.सुनिल चुटे, धीरज निमगडे, लक्ष्मण निमजे यांनी केले याशिवाय महाविद्यालयातील सर्व प्राध्यापक आणि शिक्षकेत्तर कर्मचारी यांनी ऑनलाईन सहमाग दर्शतून परिषद यशस्वी केली.



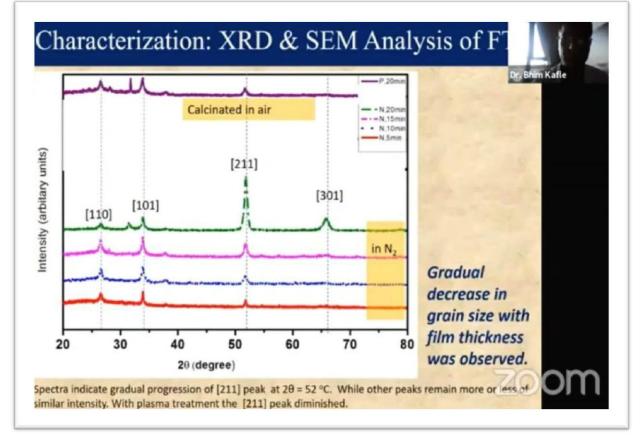
Dr. Pankaj Koinkar, From Tokushima University, Japan. Delivering Expert talk on "A Powerful Route to Produce Nanomaterial's.



Dr. W. B. Gurnule, From Nagpur Maharashtra delivering expert talk on Nanomaterial's

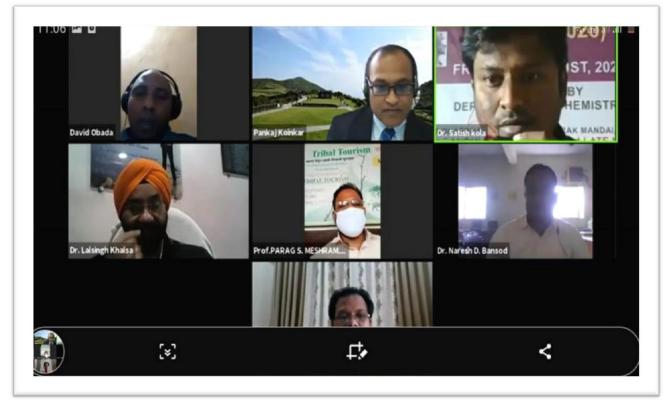


Dr. D. O. Obada From Ahmadu Bello University, Zaria, Nigeria delivering expert talk Density functional theory.

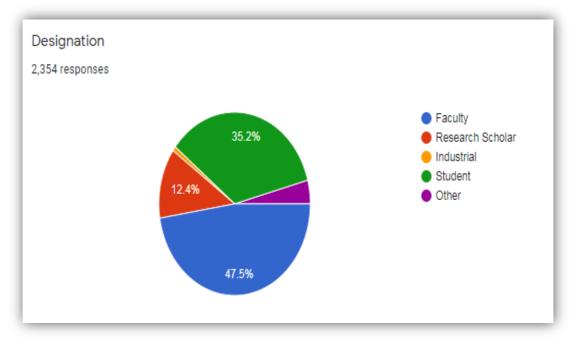


Dr. B. P. Kafle, From Kathmandu University, Nepal expressing his views on generation photovoltaic cell.

Annexure IV:



All invited speaker and organizing committe



Feedback Response

