#### REGISTRATION FORM

The 2nd International Conference on
Emerging Materials: Characterization & Application (EMCA-2017)
March 15-17, 2017

1. Name (Prof./Dr./: -----

National Institute of Technology, Durgapur

2. I	Designation & Affiliation:
3. N	Male/Female:
	Mailing Address:
5. T	Telephone No.:( O),( M
6. E	E-mail ID :
7. F	Highest Academic Qualification:
8. A	accommodation required* (Y/N):
9. F	Food Preference (Veg/Non-veg):
10.	Delegate Status (Indian/Foreign):
11.	If Foreign, Passport Number:
12.	Accompanying Spouse(Yes / No):
13.	Registration Fees(INR/USD):Bank
	DD/Cheque No.: Date:
	D/Cheque should be drawn in favour of "EMCA NITD", vable at Durgapur)
14.	Payment Reference (if paid by wire transfer/net banking):
Pla	I have taken the necessary permission from the authority to participate in the conference.
	te: Signature of the Applicant
Plac	are rend the completed application form together with the Deman

Please send the completed application form together with the Demand Draft to the below contact before the due date. The envelope should be superscripted "EMCA-2017". Scanned copy of the signed form, and scanned DD/Cheque may be sent via email for advance booking of place. Completed form may be sent to any one of the following addresses:

#### Dr. Amit K. Chakraborty

Associate Professor,
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#### Dr. A. K. Meikap

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#### INTRODUCTION:

Materials are the building blocks of the ever-changing world that we live in and hence, the study of materials has always attracted scientists and engineers across the globe. The quest for new materials has always been fuelled by the needs and aspirations of society. Knowledge of the structure, property and application of these new materials are therefore, fundamental to economic, social and industrial development. With the rapid growth in the quality of human life style in the last few decades the thrust in research on materials has seen a sharp rise. This emphasis on the development of new materials has led the researchers to discover numerous new materials with unique applications/functions which may be broadly classified under the umbrella term "emerging materials". It is therefore, very important that the academicians, researchers and industry leaders remain up- to date- with the cutting edge of latest research on processing, characterization and applications of these emerging materials.

The Second EMCA-2017 is aimed to bring together the beginners and the experts working on the broad area of materials science & engineering on a common platform so that they get an opportunity to exchange their ideas for mutual benefit. It is hoped that a number of nationally and internationally renowned speakers will grace the event to share their experience with the delegates which will immensely benefit the younger researchers.

#### SCOPE OF THE CONFERENCE:

Abstracts of original research for Oral (invited & contributory) and Poster presentations in the following broad thematic areas are invited:

- Materials for sustainable energy
- Materials for environment
- Graphene and 2-Dimensional materials
- Nanomaterials and Nano-composites
- · Advanced ceramics and glasses
- Thin Films, Lithography & Microelectronics
- Bio- materials
- Photonic and Spintronic materials
- Sensors and Mesoporous materials
- Smart materials
- · Advanced coating materials
- Advanced structural materials
- Advanced computational materials
- · Advanced techniques for materials characterization
- · Advanced techniques for materials growth

#### **PUBLICATION:**

All accepted abstracts will be published in the form of a conference proceedings, a copy of which will be given to each participant. To be considered for publication of the abstract in the conference proceedings, at least one author must pay the registration fee before the deadline. The full papers post-peer review will be published in AIP Conference Proceedings or Materials Today proceedings.

#### REGISTRATION (DEADLINES AND FEES):

Type of delegate	Before 24/02/ 2017	Before 05/03/2017
Indian delegates (academia and R&D)	INR 5000	INR 6000
Indian delegates (Industry)	INR 8000	INR 10000
PG/Ph.D. students	INR 3000	INR 3500
Foreign delegates	USD 300	USD 350
Foreign student	USD 200	USD 250
Attend only delegates	INR 1500	INR 2000

NB: Accompanying person will pay a flat rate of INR 1500 or USD 200 if foreign.

The registration fee includes three nights' accommodation in twin shared room, three breakfasts, three lunches, one regular dinner and one conference dinner, conference kit, conference abstract book (soft/hard) and full paper publication in AIP Conference Proceedings/Materials Today Proceedings.

The 2nd International Conference

# Emerging Materials: Characterization & Application EMCA-2017

March 15-17, 2017, Durgapur, INDIA



# Organized By:

#### NATIONAL INSTITUTE OF TECHNOLOGY, DURGAPUR

Mahatma Gandhi Avenue, Durgapur - 713209, India

#### DEADLINES

Submission of abstracts : February 27, 2017
Acceptance of abstracts : March 01, 2017
Submission of full paper : March 31, 2017

#### Venue:

**National Institute of Technology Durgapur** 

## **Conference homepage:**

http://www.nitdgp.ac.in/emca2017

#### **Contact:**

Dr. Amit K. Chakraborty/Prof. A. K. Meikap

Department of Physics National Institute of Technology Durgapur 713209, WB, INDIA Tel: +91 9434 788 137/ 9434 788 060

Email: emcanitd@gmail.com

### **Guidelines for preparation of Abstracts**

Abstracts must not exceed one A4 page. Abstracts must strictly follow the template given below. Abstracts must be submitted to: <a href="mailto:emcanitd@gmail.com">emcanitd@gmail.com</a>. Non-compliance with the abstract template and lack of novelty of the work may lead to rejection of the abstract. All abstracts will be reviewed by experts. Corresponding author whose abstracts are accepted will be notified immediately.

#### ABSTRACT TEMPLATE FOR EMCA-2017

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#### ABSTRACT

The maximum page limit of extended abstract is one A-4 page, including figures/tables/equations/references typed in a double column in MS Word in Times New Roman font, 11 pt. The short abstract is limited to 50 words only.

Keywords: conference, Durgapur, materials,

#### I. INTRODUCTION

Authors should submit the Extended Abstract prior to the deadline as email attachment to the conference coordinators. Names of the authors, their affiliations should be as per the guideline provided in this format (TIMES NEW ROMAN, 12 PT). Presenting author's name should be in **bold** and <u>underlined</u>. The name of the corresponding author should be marked with superscript (\*). The Abstract must be written in English. Text should be left and right justified with 2 cm margin to each side of the page. Neither text, nor figures or tables should be printed outside these margins. All texts should be single spaced, in Times New Roman, 11 pt font size consistently. The Extended Abstract begins with a short introduction, then summarizes the results of your research and ends with a conclusion section. Do not use foot notes. References should be cited uniformly.\(^1\)

## II. RESULTS

All figures should be numbered consecutively and captioned. The caption title should be written centred, with upper and lower case letters. A space should separate the figure from the caption, and a space should separate the upper part of the figure and the bottom of the caption from the surrounding /following text. Figures may be inserted within the text section or added at the bottom.

There is no limit on how many figures/tables one can show in the abstract. Figures should be inserted as pic rather than drawn/pasted on the template. Figures must have sufficient resolution so that the lines are not broken when printed on a paper.

Fig. 1 Fig. 2

III. CONCLUSIONS
IV. ACKNOWLEDGEMENT

#### References

1. Chakraborty et al., "High Yield Synthesis of Amine Functionalized Graphene Oxide And Its Surface Properties" RSC Adv. 6, 67916 (2016).

#### **GUIDELINES FOR PREPARATION OF POSTERS:**

Poster sessions will be organized wherein the participants may display their research in the form of a poster. To motivate the younger researchers, there are cash rewards for the **three best posters**. Adjudication will be done by a panel of experts. ImxIm square space will be provided for display of each poster. Typically a poster should have the following sub-sections: Abstract, Introduction, Results & Discussion, and Conclusion etc. Each poster should be on a single piece of paper. The name of the presenting author should be in bold and underlined. The name of the corresponding author must be marked with an asterisk. A passport size photograph of the presenter may also be included.

#### ADVERTISEMENTS & SPONSORSHIPS:

Full page, colour in the souvenir : INR 40,000/Half page, colour in the souvenir : INR 20,000/Full page, monochrome in the souvenir : INR 15,000/Half page, monochrome in the souvenir : INR 8,000/-

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Diamond sponsor	Display of logo in printed and electronic documents of EMCA-2017. Full page color advertisement in the conference souvenir.	1,00,000/-	Exhibition booth plus registration for up to three members
Platinum sponsor	Display of logo in printed and electronic documents of EMCA-2017. Full page color advertisement in the conference souvenir.	75.0007-	Registration for two members
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Payment mode	By E-Mail	By post
Wire Transfer	Completed form and proof of transfer with transaction reference number	No Hard copy required
DD/Cheque	Completed form and scanned copy of a DD/Cheque	Original DD/Cheque

#### SPECIAL ADVICE FOR FOREIGN NATIONALS:

Foreign nationals (not NRI or PIO) are advised to provide their passport and affiliation details well in advance to obtain necessary clearance from the Ministry of External Affairs (MEA), Govt. of India. They are further advised not to purchase any flight tickets before getting the MEA clearance. However, if the organizers fail to obtain the clearance from the MEA in time before the conference, full refund of registration fees if already paid will be made. Participants may also check mandatory vaccination (if any) or other visa requirements by visiting the websites of Indian Missions in their respective countries. Invitation letter will be issued to the foreign delegates upon request, if this is needed for obtaining visa.

#### THE LOCAL ORGANIZING COMMITTEE:

Chief Patron: Prof. A. B. Bhattacharyya, Chairperson, BOG,

**NIT Durgapur** 

Patron: Prof. Asok De, Director, NIT Durgapur

General Chair: Prof. A. K. Meikap, Department of Physics

Organizing Chair: Dr. Amit K. Chakraborty, Department of Physics

Technical Chairs: Prof. P. Kumbhakar (PH), Dr. S. Basu (PH) &

Dr. S. Bera (MME)

Publication Chairs: Dr. R. Mahapatra (ECE), Dr. A. Mondal (PH) &

r. H. Chaudhuri (PH)

Finance Chairs: Dr. M. K. Mondal & Dr. S. Sahoo, Department

of Physics

# **THE VENUE:** National Institute of technology, Durgapur- 713209, WB, INDIA

#### THE ORGANIZING INSTITUTE:

National Institute of Technology, Durgapur (NIT-D) is a leading institute offering undergraduate, postgraduate and doctoral programmes in various disciplines of engineering, technology, science, humanities and management. Currently the Institute offers nine UG (B. Tech.) programmes, more than twenty PG programmes (M.Tech./M.Sc./MS/MBA)and PhD programmes in various disciplines. NITD started its journey in 1960 as Regional Engineering College as a joint venture of the Government of India and Government of West Bengal. It assumed its current name in 2003 as it was upgraded to a deemed university, when the union Govt. of India decided to take full administrative and financial control of the college under the Ministry of Human Resource Development (MHRD). The institute received a major boost in research in 2007 when the union Government of India declared it as an Institute of National Importance. In 2013, through a major grant of the MHRD, Govt. of India, under its Technical Education Quality Improvement Programme, the institute founded the Centre of Excellence in Advanced Materials to encourage the institute's contribution to materials research. The centre has been founded as a partnership between the departments of Physics and MME (Metallurgical & Materials Engineering) of the institute as the main stakeholders.

This conference is organized under the main sponsorship of the **Centre of Excellence in Advanced Materials**, with an aim to increase its visibility to the international academic community as well as to showcase its capacities and contributions in materials research. The Centre's members are actively researching in diverse fields of materials science including but not limited to energy storage (supercapacitor & battery), energy harvesting (solar photovoltaics, photocatalysis for hydrogen evolution), photonic materials, conducting polymer composites, carbon nanostructures (carbon nanotube, graphene, etc.), resistive sensors & memory devices, semiconductor detectors, multiferroic materials, aluminium & copper based alloys, and many more.

#### THE CITY OF DURGAPUR

The city of Durgapur is one of the fastest developing Tier–II cities in the nation with strong presence of industries including steel, coal, power and education. Durgapur is situated at a distance of about 180 km north-west of Kolkata. It is a city planned & developed by the legendary freedom fighter & first chief minister of West Bengal, Dr. B. C. Roy. In the past few decades. Durgapur has established its identity from a so-called Steel city to also an educational hub thanks to its numerous educational institutes. It is well connected with rest of India by road, rail and air.

#### TRANSPORT TO AND FROM DURGAPUR

By road it can be reached from Kolkata within 2.5 to 3 hours (approx. 180 km) via the national highway (NH-2) connecting Kolkata with New Delhi, whereas by express trains, it is only two hours journey. The nearest international airport is NSC Bose International airport in Kolkata which can be reached by road in 2.5 hours. This airport has hundreds of national and international flights everyday connecting to the rest of India and the world. The train station Durgapur falls on the main route that connects Kolkata (Howrah) with the national capital New Delhi.

#### HOW TO REACH:

By train: From Durgapur station take yellow Taxi to NIT (about Rs. 180-200) or Public buses going to Bhiringi/NIT.

By bus: From Durgapur city centre bus stand take an auto rickshaw (for Rs. 60) to arrive at NIT. From Esplanade bus depot in Kolkata take (AC, non-AC and Volvo) buses every 10/15 minutes to Durgapur city centre and takes about 3 to 3.5 hours)

By air: Cabs can be pre-arranged for pick up (Rs. 3500) from airport to Durgapur. Alternatively, take pre-paid taxi from airport to Dankuni (Rs. 300) and then take bus for Durgapur (Rs. 125 to 380). Travel time 2.5 to 3 hours.