



International Conference  
on  
**Materials Research and Technology**  
(ICMRT - 2017)

July 10-11, 2017

Call for Papers  
**Final Announcement**



Organized by  
Faculty of Science  
**Aggarwal College, Ballabgarh**  
Faridabad-121004, Haryana, India  
[www.aggarwalcollege.org](http://www.aggarwalcollege.org)  
Email: [icmrt2017@gmail.com](mailto:icmrt2017@gmail.com)

**in association with**  
Indian Society for Analytical Scientists (ISAS)-Delhi Chapter

On behalf of the Organizing Committee ICMRT-2017, Aggarwal College, Ballabgarh, Faridabad-121004, Haryana, India, we cordially invite you, to contribute and participate in the “International Conference on Materials Research and Technology (ICMRT-2017) to be held here during July 10-11, 2017.

ICMRT-2017 is the First International Conference in the field of Materials being organized by this College. The aim of the conference is to provide a forum for interaction and exchange of ideas among the scientists, engineers and young researchers actively involved in the area of Materials related technologies. The conference will emphasize on the future trends in Materials for different applications.

## Scope

Everything is made of something, yet, during the past century, the scientific and technological importance of materials has not been widely appreciated. Indeed, even though historical materials breakthroughs such as the development of steel to replace wrought iron had enormous commercial impacts, the term ‘advanced materials’ was coined only comparatively recently. The material of choice of a given era is often a defining point. Phrases such as Stone Age, Bronze Age, Iron Age, and Steel Age are great examples. Originally deriving from the manufacture of ceramics and its putative derivative metallurgy, materials science is one of the oldest forms of engineering and applied science. Modern materials science evolved directly from metallurgy, which itself evolved from mining and (likely) ceramics and the use of fire. A major breakthrough in the understanding of materials occurred in the late 19th century, when the American scientist Josiah Willard Gibbs demonstrated that the thermodynamic properties related to atomic structure in various phases are related to the physical properties of a material. Important elements of modern materials science are a product of the space race: the understanding and engineering of the metallic alloys, and silica and carbon materials, used in building space vehicles enabling the exploration of space. Materials science has driven, and been driven by, the development of revolutionary technologies such as rubbers, plastics, semiconductors, and biomaterials.

The basis of materials science involves studying the structure of materials, and relating them to their properties. Once a materials scientist knows about this structure-property correlation, they can then go on to study the relative performance of a material in a given application. The major determinants of the structure of a material and thus of its properties are its constituent chemical elements and the way in which it has been processed into its final form. These characteristics, taken together and related through

the laws of thermodynamics and kinetics, govern a material's microstructure, and thus its properties.

The technical programme of the conference will consist of keynote address, invited talks, contributory papers and poster sessions reporting original research and development work. Broadly, the relevant areas of interest include (but not limited to)

- **Materials Science and Engineering**
- **Functional Materials**
- **Nanotechnology**
- **Biomaterials and Health Care**
- **Materials in Industry**
- **Materials in Chemistry**
- **Materials Physics**
- **Energy Materials**
- **Advanced Materials and Devices**
- **Synthesis, Characterization and Testing of Materials**
- **Radiation Shielding Materials**
- **Radiation Induced Modification of Materials**

The language of the ICMRT-2017 will be **English**.

### **Presentation**

- Plenary Talk /Keynote address
- Invited Talks (25 minute presentation followed by 5 minute discussion)
- Contributory Papers
  - Oral (8 minute presentation followed by 2 minute discussion)
  - Poster (115 cm height X 85 cm width)

*Contributors may please indicate the theme at the right top corner of the paper/abstract to be communicated for consideration*

### **Conference Proceedings/Publication:**

Abstract Proceedings will be published in the form of a Souvenir which will include Plenary /Keynote/Invited Contributions and abstracts received for oral/poster presentation. The selected papers accepted after peer review would be published in the UGC approved Journal **ISST Journal of Applied Physics** with ISSN No. 0976-903X.

### **Conference Venue:**

The conference will be organized at Aggarwal College, Ballabgarh, Faridabad-121004, Haryana, India (See the map location.)

### Accommodation:

(a) All foreign invited speakers will be provided accommodation from July 9-10, 2017. All other participants shall be provided suitable accommodation on payment basis

Please contact Dr. Krishan Kant, Convener (Mb. 7011656918) OR Dr. Ajit Singh Yadav, Organizing Secretary (Email: [icmrt2017@gmail.com](mailto:icmrt2017@gmail.com); Mb. 9968105667) for more details and tariff.

### About Ballabgarh

Ballabgarh is a historical town in Faridabad District of Haryana, India, and is part of the National Capital Region. Ballabgarh is only 32 km from Delhi and lies on the National Highway 2. The weather is hot in the month of July and average temperature is 36°C.

### About the Institution

Aggarwal College, Ballabgarh, established in 1971 has been accredited A Grade (CGPA3.40) by NAAC and awarded College with Potential for Excellence (CPE) status by UGC. It is a co-educational post graduate institution running 12 graduation and 08 post graduation courses. Besides, six add-on courses and two vocational courses sponsored by University Grants Commission are also run to equip students with market oriented innovative skills. (For more details visit [www.aggarwalcollege.org](http://www.aggarwalcollege.org))

### Registration Fee

It includes conference material, lunch, Certificate of Attendance and e-copy of the Proceedings

<b>a. International Delegates:</b>	
General Registration :	US \$500
Student Registration:	US \$300
Accompanying person:	US \$200
<b>b. National Delegates :</b>	
General Registration :	Rs. 1500
Student Registration:	Rs. 1000
Accompanying Person:	Rs. 800

Mode of payment can be cash/cheque/DD (in favour of Principal, Aggarwal College Ballabgarh). Registration fee should be sent along with registration form to College address.

For online registration:

Account Name: Aggarwal College Ballabgarh Account No. : 00882010056670 IFSC Code: ORBC0100088 Branch : Oriental Bank of Commerce, Ballabgarh. On the Spot registration can also be made.

## Tentative Programme:

### July 10, 2017:

- 8.00 am -10.00 am Registration
- 10.00 am – 12.00 pm Inauguration and Key note address
- 12-1:00PM Lunch
- 1.00 pm -6.30 pm Technical sessions/Tea
- 7.30 pm -9.00 pm Conference Dinner

### July 11, 2017:

- 9.00 am – 5.00 pm Technical sessions / poster sessions/Lunch/Tea
- 5.00 pm -6.00 pm Valedictory

### Important Deadlines:

Abstract	: 20.06.2017
Acceptance to be communicated	: 24.06.2017
Full length Manuscript	: 30.06.2017
Hard Copy: at Desk	Soft copy: Via e-mail <a href="mailto:icmrt2017@gmail.com">icmrt2017@gmail.com</a>

### About ISST

Intellectuals Society for Socio-Techno Welfare (ISST) aims at undertaking, aiding, co-ordinating, and promoting Research and Development. It provides academic and professional guidance, advice and consultancy in the field of Basic Education, Higher Education as well as in the Technical Education Research. Apart from this, ISST collaborates with other national & International institutions, organizations and associations for more efficient functioning and fulfilment of its aims.

For more details, please visit [www.isst.org.in](http://www.isst.org.in)

### About ISCA

Indian Science Congress Association (ISCA) is a premier scientific organisation of India with headquarters at Kolkata, West Bengal. The association started in the year 1914 in Kolkata. Its main objectives are to advance and promote the cause of science in India; hold an annual congress at a suitable place in India; publish such proceedings, journals, transactions and other publications as may be considered desirable; secure and manage funds and endowments for the promotion of Science including the rights of disposing of or selling all or any portion of the properties of the Association, and do and perform any or all other acts, matters and things as are conducive to, or incidental to, or necessary for, the above objects.

### Indian Society of Analytical Scientists-Delhi Chapter (ISAS-DC)

ISAS-DC: Indian Society of Analytical Scientists-Delhi Chapter (ISAS-DC) with its head office at IOC R&D Centre, Faridabad, is a multi-disciplinary body whose major functions are to organize symposiums / workshops on various topics on analytical

sciences relevant to academics and industry. The latest in the series are: Seminar on “Microscopic Techniques”, June 26, 2014, IHC, New Delhi, 4th NSAS on “Latest Developments in Analytical Techniques”, Feb 9-10, 2015, Jamia Hamdard, New Delhi, Workshop on “Molecular Spectroscopic Techniques”, Mar 30, 2015, Maitreyi College, New Delhi, and “Seminar on Low Field NMR” on December 12, 2015 at IOCL-R&D, Faridabad, National Seminar on “ROLE OF ANALYTICAL SCIENCES IN SUSTAINABLE DEVELOPMENT”, 29-30 January, 2016, Hansraj College, University of Delhi, Delhi, NATIONAL CONFERENCE on “Global Challenges - Role of Sciences & Technology in Imparting Their Solutions”, April 23-24, 2016, TITS, Bhiwani, and National Conference on Advances in Multidisciplinary Aspects of Science & Engineering (23rd November, 2016) at Deenbandhu Chhotu Ram University of Science & Technology, Murthal, Haryana

**For more details and Life Membership information, please visit [www.isasdelhi.org](http://www.isasdelhi.org)**

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- Dr. Ajit Singh Yadav, Organizing Secretary
- Dr. S.K. Chakarvarti, Technical Programme Advisor

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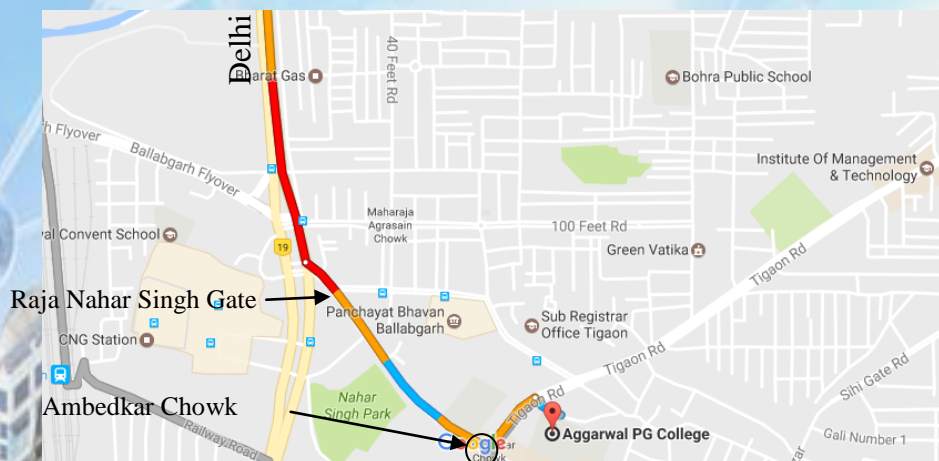
## Instructions for preparing manuscripts of the research papers/abstracts

The abstracts should include title, author/s names, affiliation, and the text not exceeding 200 words should be submitted to the convener at [icmrt2017@gmail.com](mailto:icmrt2017@gmail.com)

The accepted full paper should have hard and soft copies of the full length paper of A-4 size limited to five pages including title, authors names, and affiliation. Text of the paper should be clearly typed in single space in MS WORD. The full address of the authors including e-mail, fax and phone numbers should be clearly indicated.

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