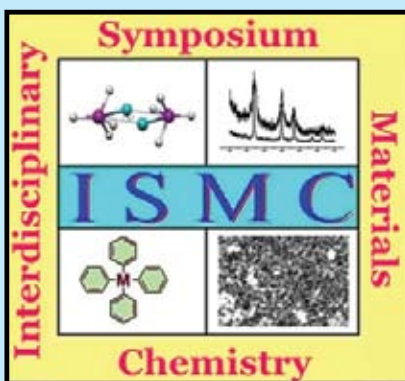




DAE-BRNS
7TH INTERDISCIPLINARY SYMPOSIUM
ON MATERIALS CHEMISTRY

December 4-8, 2018

**Venue: DAE Convention Centre,
Anushaktinagar, Mumbai**



Organized by
Society for Materials Chemistry, Mumbai
and
Chemistry Division
Bhabha Atomic Research Centre
Trombay, Mumbai-400085, India

Sponsored by
Board of Research in Nuclear Sciences
Department of Atomic Energy
Government of India, Mumbai-400 085

Web site: www.smcindia.org/ismc-2018

ISMC-2018

NATIONAL ADVISORY COMMITTEE

SYMPOSIUM ORGANIZATION COMMITTEE

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SCOPE OF THE SYMPOSIUM

The 7th Interdisciplinary Symposium on Materials Chemistry, ISMC–2018, is being organized jointly by the Society for Materials Chemistry (SMC) and Chemistry Division, Bhabha Atomic Research Centre (BARC), Trombay, Mumbai, India, during December 4-8, 2018. The symposium is supported by Board of Research in Nuclear Sciences (BRNS) and Department of Atomic Energy (DAE). In this Symposium, it is planned to focus on contemporary research areas of materials chemistry relevant to DAE programmes. Deliberations of the symposium will cover the following topics:

- Materials for nuclear fuel cycle
- Materials for nuclear safety
- Materials for energy conversion and storage
(Hydrogen, solar and battery)
- Materials for health care
- Organic and organometallic compounds
(Synthesis and applications)
- Materials for device technology
- Materials for sensing application
- Materials under extreme conditions

IMPORTANT DATES

Last date for submission of papers (<i>Extended</i>)	August 31, 2018
Acceptance of papers (<i>not applicable for speakers</i>)	September 15, 2018
Payment of registration fee	October 15, 2018

Note: Registration fee should be sent only after receiving intimation of acceptance of your paper

ADDRESSES FOR CORRESPONDENCE

Symposium Email: ismc2018barc@gmail.com

Office Bearers

Dr. K. Indira Priyadarsini Convener, ISMC-2018 Chemistry Division, BARC, Trombay, Mumbai-400 085, India Tel.: +91-22-2559 5399 (O) Email: kindira@barc.gov.in	Dr. V. Sudarsan Secretary, ISMC-2018 Chemistry Division, BARC, Trombay, Mumbai-400 085, India Tel.: +91-22-2559 5355 (O) Email: vsudar@barc.gov.in	Dr. S. N. Achary Joint Secretary, ISMC-2018 Chemistry Division, BARC, Trombay, Mumbai-400 085, India Tel.: +91-22-2559 2328 (O) Email: sachary@barc.gov.in
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SUBMISSION OF CONTRIBUTORY PAPERS

Desirous participants may submit their contributory papers as per the template on the symposium website www.smcindia.org/ismc-2018 before extended due date **August 31, 2018**. The Organizing Committee reserves the rights to decide regarding acceptance/rejection of papers. Acceptance of papers will be communicated by **September 15, 2018**. Inclusion of papers and participation of authors in scientific program are dependent on payment of registration fee by **October 15, 2018**.

GENERAL GUIDELINES FOR CONTRIBUTORY PAPERS

- Language: English
- Paper size: A4; 1 inch margins on all sides
- Text : Times New Roman, 10pt font; single line spacing; no extra spacing between paragraphs (see template for more details)
- Size: Not more than 2 pages, including tables, references and illustrations
- Two page space should be fully utilized with sufficient scientific information. Papers with insufficient information will not be considered.
- File format: Microsoft Word (Office 2003, 2007, 2010)

REGISTRATION DETAILS AND FEE STRUCTURE

All the participants of ISMC-2018 are expected to get registered in advance by filling the registration form online (www.smcindia.org/ismc-2018), giving registration fee details. Registration fee should be credited to ISMC account by online transfer/RTGS/NEFT mode only. Payment made by other modes will not be taken into consideration. ISMC account details and other information will be provided in the intimation letter regarding acceptance of paper. Registration fee covers electronic copy of symposium proceedings (CD), conference-banquet, lunch, dinner and refreshments during the symposium period, but does not cover accommodation charges.

Registration fee is non-refundable.

The details of the registration fee are given below:

Research Scholars	Rs. 4000/-*
Delegates from Universities /Educational Institutions/ Government Departments/ accompanying person with delegates	Rs. 7000/-*
Delegates from Public Sector Undertakings	Rs.9000/-*
Delegates from Industries	Rs. 10000/-
Delegates from abroad [#]	US \$400/-
Accompanying person with foreign delegates [#]	US \$ 300/-
Research Scholars from abroad [#]	US \$ 300/-

* *A concession of Rs. 500/- is applicable to Life members of Society for Materials Chemistry (SMC)*

[#] Overseas participants must obtain Business VISA to attend the conference. Tourist VISA holders are not permitted to enter Anushaktinagar premises

ACCOMMODATION

Limited accommodation for delegates will be available at BARC Guest Houses/ Hostels. Additional arrangement will be made at nearby Guest Houses with Tariffs ranging from Rs.2500/- to Rs.3000/- per day per person. Delegates interested to stay at Private Hotels can do so directly with the hotel and inform us accordingly. Request for accommodation should be made at symposium website only after payment of registration fee. Accommodation for only one author per contributory paper will be provided. Accompanying persons are requested to make their own accommodation arrangement.

TRAVEL ASSISTANCE

Participants are requested to make their own travel arrangements. Financial assistance by second class train fare for shortest route of travel may be available to a limited number of research scholars or students presenting paper, in case their establishment is unable to arrange for the same. Requests for financial assistance must be forwarded through the Director/Head of the parent institution to the Secretary, Symposium Organizing Committee, ISMC-2018, positively by October 31, 2018. On the spot, requests for travel assistance will not be entertained.

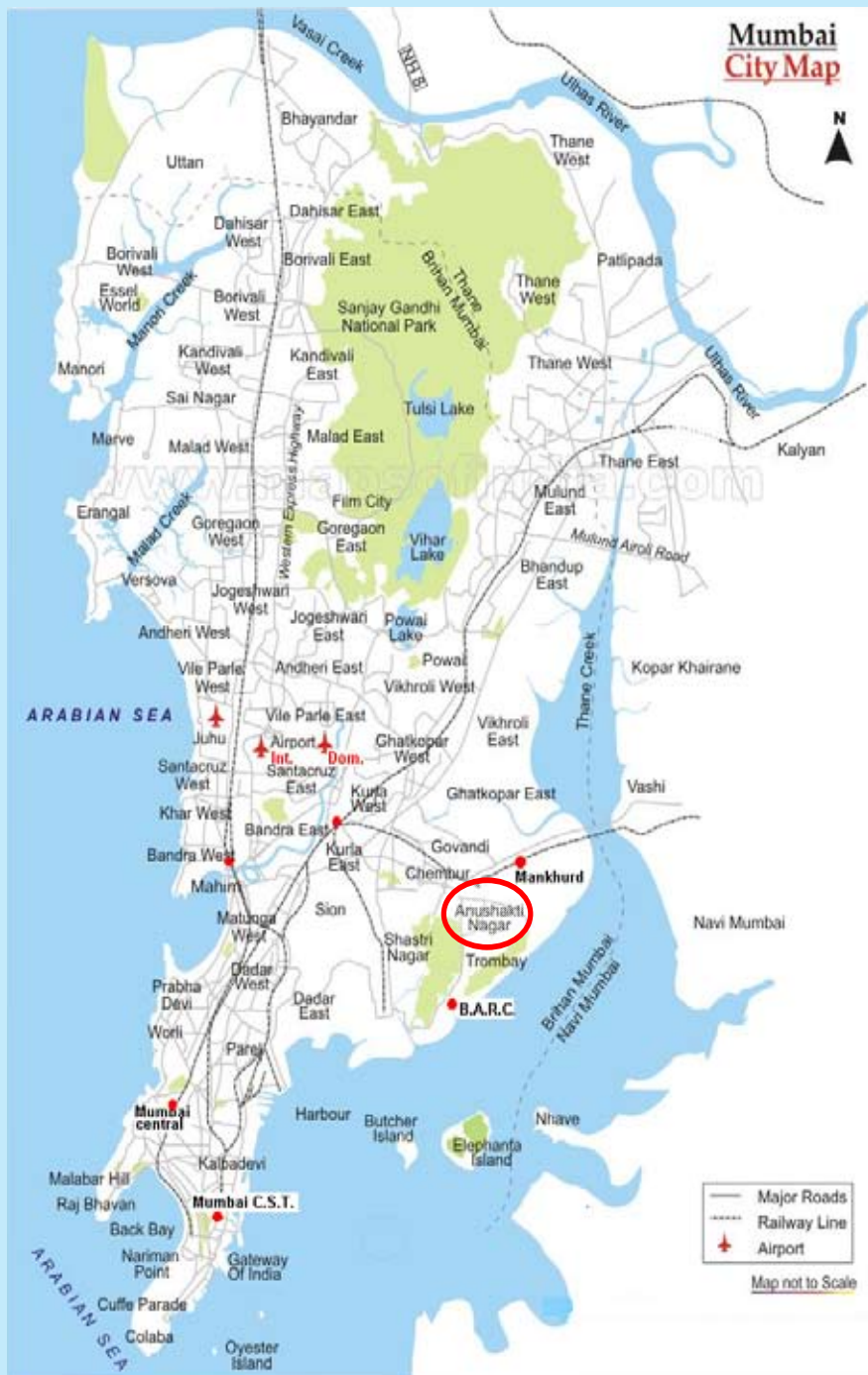
THE VENUE, DAE-CONVENTION CENTRE, ANUSHAKTINAGAR, MUMBAI



DAE-Convention Centre is located in **Anushaktinagar**, the residential colony of **Bhabha Atomic Research Centre (BARC)**, Mumbai. **BARC** is a premier multidisciplinary Nuclear Research Centre of India. **Anushaktinagar** is located at the north-eastern part of **Mumbai** city, which is well connected to other parts of India and to the rest of the world. Participants arriving by train may alight at Dadar, Mumbai Central, Mumbai CST, Kurla or Bandra Terminus. Those travelling by air will arrive at Chhatrapati Shivaji International Airport (CSIA). **Anushaktinagar** is about 30 km from Mumbai CST, less than 30 km from the other terminals, and about 20 km from the international airport (CSIA). Metered taxis are available at airports and railway stations. Delegates coming by flights are advised to take taxi from pre-paid taxi service kiosks at the airport. Taxi fares are based on tariff related to the meter readings. **Anushaktinagar** is also approachable by harbour branch of local trains that start from Mumbai CST and pass through Mankhurd station. Those availing local trains may alight at Mankhurd station and take autorickshaw from there for reaching BARC Guest House located at **Anushaktinagar**.

N.B. Landmarks can be identified in the enclosed map.

Mumbai City Map



- Major Roads
- - - - Railway Line
- ▲ Airport

Map not to Scale

BOARD OF RESEARCH IN NUCLEAR SCIENCES

Board of Research in Nuclear Sciences (BRNS) supports research and development activity in universities, institutes of higher learning and national laboratories in the fields relevant to the mandate of Department of Atomic Energy. BRNS also supports symposia, conferences, seminars and workshops in various areas of science and technology.

SOCIETY FOR MATERIALS CHEMISTRY

The Society for Materials Chemistry (SMC) was founded in 2007 after successfully conducting the 1st International Symposium on Materials Chemistry (ISMC 2006) at BARC, Mumbai, with Chemistry Division, BARC, as its headquarters. SMC is now a registered public trust with more than 1000 life members. The Society provides a common platform to young researchers and active scientists in the area of Materials Chemistry by arranging biennial symposia and National workshops. The 6th Interdisciplinary Symposium on Materials Chemistry (ISMC 2016) was held at BARC, Mumbai during December 2016. The 7th symposium in this series (ISMC 2018) is now being co-organised by SMC with the financial support from BRNS. We do hope for further enrichment of strength and activities of SMC by arranging workshops, bringing out newsletters, bulletins, etc.

MUMBAI CITY

Mumbai, previously known as Bombay, is a major metropolitan city, the state capital of **Maharashtra** and also the economic capital of **India**. It has historically evolved out of a group of seven islands in the Arabian Sea which lies off the northern Konkan coast on the west of **Maharashtra**. Bombay, which the king of Portugal gave as a dowry to Charles-II of England in 1661, has grown from marshy fishing village to a global cosmopolitan city. Today, it is inhabited by about 21 million people from all over the country. Mumbai's climate is warm and humid for most part of the year. The sky remains clear during November to February with temperatures generally within 15 to 25 degree Celsius. Lighter clothing suits with the weather.

Tourist attractions

The Asiatic Society of Mumbai, Bombay Natural History Museum, Bombay Stock Exchange, Elephanta Caves, Film City, Gateway of India, Haji Ali Dargah, Jehangir Art Gallery, Kanheri Caves, Marine Drive (earlier Queen's Necklace), Chowpatty Beach, Nehru Planetarium, ISKCON Temple, Vihar Lake, Chhatrapati Shivaji Maharaj Vastu Sangrahalaya (formerly Prince of Wales Museum), Sanjay Gandhi National Park (formerly Borivali National Park), CST (formerly Victoria Terminus) and Bandra-Worli Sea Link.

People, Art, Culture and Industry

A resident of Mumbai is called a *Mumbaikar*, *Mumbaite* or *Bombayite*. Life of an average Mumbaikar is very fast-paced. Mumbai is the birthplace of Indian cinema, with the oldest film made here in the early 20th century. The city also has a thriving theatrical tradition in Marathi, Hindi, Urdu, English and other regional languages. Contemporary art is well-represented in both government funded art spaces and private commercial galleries. The government-funded art galleries include, The Jehangir Art Gallery and The National Gallery of Modern Art. Built in 1833, the Asiatic Society of Mumbai is the oldest public library in the city. Being a cosmopolitan city both Western and Indian festivals are celebrated with great fanfare by residents of all communities and religions. Diwali, Holi, Christmas, Navratri, Good Friday, Eid, Dusshera, Muharram, Ganesh Chaturthi, and Maha Shivaratri are some of the most popular festivals in the city. Mumbai has a vast array of different industries which include pharmaceuticals, construction, engineering, metals, silks, glassware, printing, plastics, bikes and film. However, textiles are still Mumbai's largest industry. It also has a large petroleum industry. Nearly all of India's petroleum is marketed through Mumbai.

Academic & Research Organizations

There are several academic and research organizations in Mumbai and these include-Bhabha Atomic Research Centre (BARC), Tata Institute of Fundamental Research (TIFR), Indian Institute of Technology, Bombay (IIT, Bombay), Mumbai University, Institute of Chemical Technology (ICT), Tata Institute of Social Sciences (TISS), SNDT University, Institute of Science, Homi Bhabha National Institute (HBNI), Centre for Excellence in Basic Sciences (CEBS), etc.

PASSPORT DETAILS REQUIRED FROM OVERSEAS PARTICIPANTS

Full Name : _____

Designation & Affiliation : _____

Nationality : _____

Passport Number : _____

Date & Place of Issue : _____

Passport Issuing Authority : _____

Expiry Date of Passport : _____

Present Address : _____

Permanent Address : _____

Telephone : (O) _____ (R) _____ FAX : _____

Email : _____

Date : _____ Signature : _____

To,

Dr. V. Sudarsan

Secretary, ISMC-2018

Chemistry Division, BARC,

Trombay, Mumbai-400 085, India

Telephone: +91-22-2559 5355 (O)

Email: vsudar@barc.gov.in

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Chemistry Division, BARC,

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Email: sachary@barc.gov.in

Overseas participants must obtain Business VISA to attend the conference. Tourist VISA holders are not permitted to enter Anushaktinagar premises.

Template for preparation of two pages Manuscript

Category (e.g. Nuclear Materials, Thin Films etc)

The Title of the Paper should be in this Format with Each Initial Letter in Capital Case

Author's Name^a, Author's Name^b and Author's Name*

^aReplace this text with author's affiliations (use complete addresses) Continue Here

^bIf more than one affiliation is needed, they should be indicated by superscript letters, a, b, c, etc. as shown above.

* Corresponding author's name should be marked with asterisk (*) and his/her email i.d., Telephone Number and Fax Number should be provided here

Abstract

The abstract should summarize the highlight of work in not more than 150 words. The text should be in italic and justified. Leave one space between and after the abstract. The text should be typed in single columns in Times New Roman (font size 10) with single spacing, as shown in the template. Abstract with insufficient information or improper format will not be considered.

The title, authors, affiliations and addresses should be centred. The name of the corresponding author should be highlighted by asterisk (*). Leave one space each between the title, authors, addresses and content of the paper. The affiliation should include the institution, department, and country in this sequence. The text itself should be justified. Leave one space between the paragraphs. The text should be typed in two columns in Times New Roman (font size 10) with single spacing, as shown in the template.

Enough scientific information about the work should be reflected in the text and the space of one page should be completely utilised. Papers with insufficient information or improper format will not be considered. Introduction and experimental section should be kept to a minimum and more emphasis should be placed on salient results of the work.

Based on figure size, it should be included in

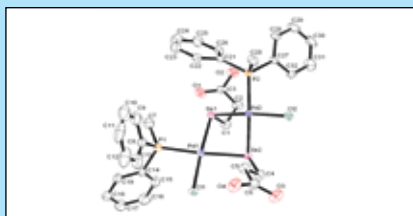


Figure 1. Figure caption should be in Times New Roman 10 font and figures should be imported as graphics

a text box so that the remaining space can be utilised for providing more discussion. The authors should ensure to provide figures with good resolution as these will be reproduced as submitted. The same is applicable for placing table, depending on the number of columns.

Table 1. Table caption in Times New Roman, 10 font. Both caption and table centre aligned w. r. t. the page.

Heading 1 (Font 10, Bold)	Heading 2 (Font 10, Bold)	Heading 3 (Font 10, Bold)
Description (Font 10, regular)	Description (Font 10, regular)	Description (Font 10, regular)
Description (Font 10, regular)	Description (Font 10, regular)	Description (Font 10, regular)

References

References are to be indicated by square brackets in the text (e.g. [1]), and given in the format shown below using "Times New Roman" font (10 pt). Leave one space between the text and references.

1. A. First, B. Second and C. Third, Journal, 12 (2007) 345.

It is mandatory to utilize full TWO Page space for the paper.