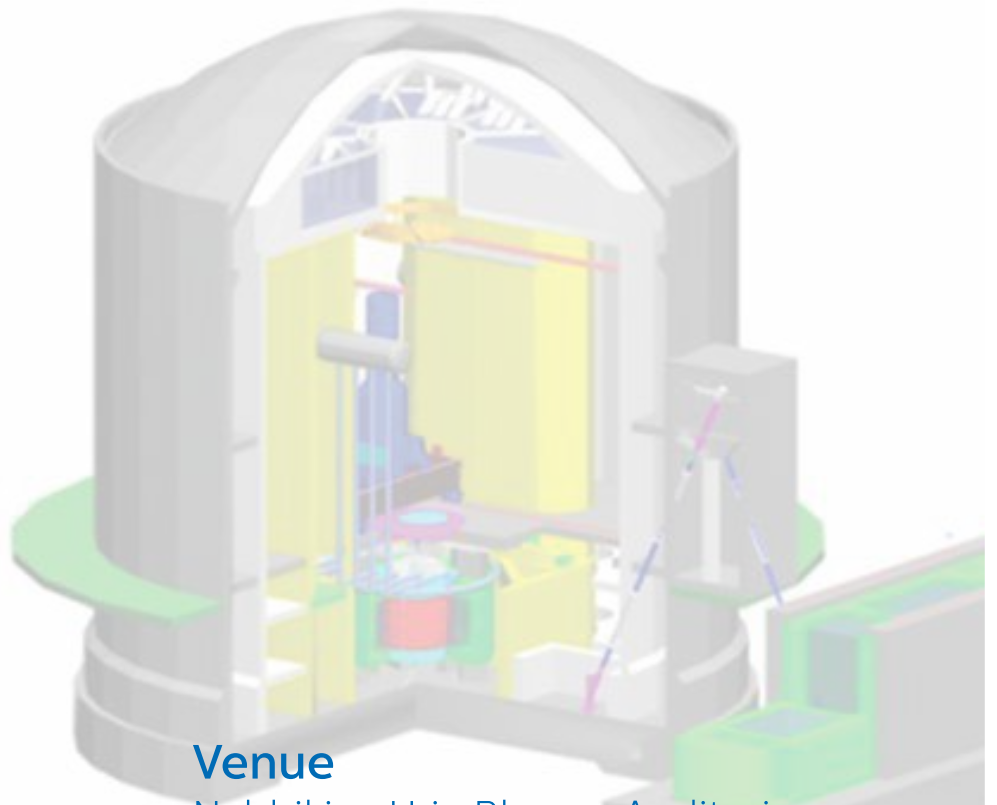


NCPTh-2014

National Conference on Power from Thorium: Present Status & Future Directions



Venue

Nabhikiya Urja Bhavan Auditorium,
Anushaktinagar, Mumbai-400 094, INDIA.

Organised by

Bhabha Atomic Research Centre

Supported by

Board of Research in Nuclear Sciences

SCOPE OF THE CONFERENCE

Thorium utilisation forms the core of India's Three Stage Nuclear Power Programme. A large number of activities are being carried out towards Thorium utilisation for power generation in different units of DAE. Pressurised Heavy Water Reactor, Advanced Heavy Water Reactor, Compact High Temperature Reactor, Fast Breeder Reactor and Accelerator Driven System are examples of some of these activities. These programmes are supported by different activities related to front and back end of fuel cycle technologies. The purpose of the conference is to disseminate the knowledge about latest status of our core strengths and technological challenges in the thorium related R&D, technology deployment, on-going activities and exchange of ideas on way forward. The conference will also look towards establishing inter-institutional synergies. In this conference, it is planned to focus on contemporary research in the field of thorium utilisation for power generation. The deliberations of the conference will cover the following topics:

- ▶ Thorium exploration and mining
- ▶ Challenges in separation of thorium from other rare earths
- ▶ Thermo-physical properties and nuclear data for thorium based fuels
- ▶ Challenges in thorium fuel fabrication
- ▶ Physics design of thorium based nuclear reactors
- ▶ Performance of thorium based fuels in current nuclear reactors
- ▶ Challenges in large scale power production from thorium in future nuclear reactors
- ▶ Thermal hydraulics and safety of current and future thorium based reactor designs
- ▶ Reprocessing of thorium spent fuels
- ▶ Material challenges for thorium based reactors
- ▶ Molten salt chemistry and corrosion in thorium reactors
- ▶ Thorium and proliferation resistance
- ▶ Non-nuclear application of thorium

WHO SHOULD PARTICIPATE?

The conference is intended for scientists, engineers, academicians, industries and research students working in various areas of nuclear fuel fabrication, spent fuel reprocessing, waste management, nuclear reactor design and reactor thermal hydraulics and safety for current and new generation thorium based reactor systems. The goal is to focus on technological challenges for harnessing thorium for power generation on commercial scale.

FORMAT OF THE CONFERENCE

The conference will involve plenary and invited talks by eminent professionals from India who have made significant contribution in development of technologies towards thorium utilisation for power generation. The conference also invites contributed papers from prospective authors for poster presentation during the conference.

IMPORTANT DATES

Submission of abstracts	: September 15, 2014
Notification for acceptance	: September 30, 2014
Submission of full paper	: October 31, 2014
Payment of registration fees	: November 20, 2014

ADDRESS FOR CORRESPONDENCE

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POSTER SESSION

The conference invites technical papers from prospective authors for poster presentation during the conference. The theme of the poster should be in line with the theme of the conference. Desirous participants may submit an extended abstract (maximum two pages including figures etc.) of the work which they plan to present in the poster session during the conference by September 15, 2014. The Organising Committee reserves the rights to decide the acceptance of the abstracts. The acceptance of the papers will be communicated by September 30, 2014. Inclusion of the papers and participations of the authors in the scientific program are subject to payment of registration fee. Full paper, not exceeding 6 pages should be submitted upon acceptance of the abstract. Posters are not required to be submitted during registration; but authors are required to display the posters in the conference.

- ▶ Abstracts and full papers should be submitted to Convener by email to arunths@barc.gov.in

GUIDELINES FOR CONTRIBUTORY PAPERS

- ▶ Paper size: A4; 1 inch margins on all sides
- ▶ Text : Times New Roman, 10 pt font; single line spacing; no extra spacing between paragraphs
- ▶ One page space should be fully utilised with sufficient scientific information
- ▶ File format: Microsoft Word (Office 2003, 2007, 2010)

REGISTRATION DETAILS AND FEE STRUCTURE

All the participants of NCPTTh-2014 should get registered in advance by filling the registration form giving registration fee details. The registration fee should be paid by demand draft payable at Mumbai in favour of NCPTTh-2014 (A/c payee only). The details of the registration fee are given below:

DAE & academic / research institutes in India	Rs. 1500/- per participant
Industries	Rs. 5000/- per participant
Students	Rs. 1000/- per participant

MUMBAI CLIMATE:

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. Mumbai, 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 15 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. Winter season (December) with balmy breeze and clear blue sky is the most pleasant time in Mumbai for exploring all through the city and its outskirts. The weather is completely favorable to enjoy sightseeing, outings and outdoor activities in Mumbai.

ACCOMMODATION

Limited number of accommodation for delegates will be available in BARC Guest Houses. Additional arrangement has to be made in nearby hotels with Tariffs ranging from Rs. 2000/- to Rs. 10000/- per day per person. Delegates interested to stay in private hotels can do so directly with the hotel and inform us accordingly.

EXHIBITION

Industries willing to exhibit their products during the conference may contact the Convener, Organising Committee. Various opportunities of sponsorship are available in the conference. Besides, a commemorative souvenir will be brought out for the event containing the details of technical events and abstracts of all the lectures including contributed papers. The souvenir will be distributed to all the participants. Advertisements are invited for printing on selected pages of the souvenir.

CONFERENCE ORGANISERS

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Director (Operations), NPCIL

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K. Velusamy, IGCAR

REGISTRATION FORM

National Conference
On
Power from Thorium: Present Status and Future Directions
December 22-24, 2014

Name: _____

Organisation: _____

Address for Communication:

Phone: _____

Fax: _____

Email: _____

Payment details: _____

Amount: _____

DD No.: _____

Date: _____

Signature: _____

All the payments should be made through a Crossed Demand Draft, drawn in favour of "NCPTH-2014" payable at Mumbai and sent to the Convener.

TEMPLATE FOR PREPARATION OF THE MANUSCRIPT

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 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 Times New Roman (font size 10) with single spacing, as shown in the template.

1. INTRODUCTION

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 the salient results of the work.

2. HEADINGS

Headings and subheadings should appear throughout the manuscript to divide the subject matter into logical parts and to emphasize the major elements and considerations. These headings assist the reader in following the trend of thought and in forming a mental picture of the points of chief importance.

2.1 SUBHEADINGS:

3. CONCLUSIONS

Conclusion should reflect the final outcome of the work.

ACKNOWLEDGMENTS

Acknowledgments may be made to individuals or institutions not mentioned elsewhere in the work that have made an important contribution.

NOMENCLATURE

The nomenclature list should be in alphabetical order with Greek symbols, also in alphabetical order.

REFERENCES

All publications cited in the text should be presented in a list of references following the text of the manuscript.

[1] Authors, "title of the paper", name of the journal, vol no., year

INSERT FIGURE AND GRAPHS HERE

Figure-1: Title of the figure