



Tumkur University

Department of Studies & Research in Physics

Organizing

One-Day National Conference

On

**“Trends in Advanced
Materials and their
Applications”**

(TAMA-2017)

On 30th November 2017

Venue:

**Sir M. Visvesvaraya Auditorium
Tumkur University Campus
Tumakuru**

Organized by

Department of Studies & Research in Physics

Tumkur University

B.H. Road, Tumakuru – 572103 Karnataka

www.tumkuruniversity.ac.in

Conference email id: tudosrp@gmail.com

About Tumkur University

Tumkur University, established in the year 2004, has gained significance as one of the young universities in the country and has been recognized as an institution of higher learning on par with high profile national institutions. It is a state university, established to cater to the educational needs of Tumakuru district where the majority of students hail from the rural background. Since its inception, the University has been witnessing tremendous growth in the development of its academic profile and infrastructural facilities. Within a short span of thirteen years, the University has been successful in being recognized as an Institute of National Eminence by the UGC, besides being recognized under section 2(f) and 12 (B) of the UGC Act 1956 and also successfully gaining 'B' grade by the NAAC accreditation.

Recently, the university has been rated as a 'Three Star' institution under the Karnataka State Universities Rating Framework (KSURF) released by the Karnataka State Higher Education Council, Bengaluru. The evaluation was based on the criteria of Knowledge Production, Knowledge Transmission and Social Inclusiveness, besides taking into consideration the performance of the university in the domain of research, innovation, and teaching; generating employment opportunities, providing basic amenities, inclusiveness and making social impact. The University offers Ph.D. Programmes in all the faculties. The University research profile includes many number of Research projects funded by various funding agencies such as Indian Space Research Organization (ISRO), Department of Science and Technology (DST), Science and Engineering Research Board (SERB), UGC, ICSSR, ICHR, Vision Group on Science and Technology (VGST), Government of Karnataka, and the British Council, etc.

Department of Studies & Research in Physics

The Department of Physics was established in 2010, it is now running two years M.Sc. with an intake of 56 students offering Condensed Matter Physics, Nuclear Physics and Electronics as special subjects. The department also offers Ph.D. programme in Physics. The department has received various research projects from various funding agencies such as Indian Space Research Organization (ISRO), Department of Science and Technology (DST), Science and Engineering Research Board (SERB), UGC, IUAC, NRB and Vision Group of Science and Technology (VGST), Government of Karnataka. The department has several research programmes in collaboration with other Universities and Institutions in India and abroad. The department has more than 400 research publications in well reputed journals with good impact factors to its credit. The Department has the necessary infrastructure facilities needed for the R & D work. The facilities include Powder X-ray diffractometer (PXRD), Scanning electron microscopy (SEM), Spectrofluorimeter, TL dosimeter, UV-Vis spectrophotometer etc.

Physics department seeks to maintain excellence in teaching, learning, research and serving community. The Department attracts large number of students and they are equipped with employable skills to meet globalized research environment. The Department has produced a good number of graduates who have been placed in better positions in various institutions and Universities.

Theme of the Conference

Advanced Materials Science and Technology is one of the frontiers of research today. It is gaining importance mainly because of wide spread day to day applications which are built with intelligent and fine-tuned properties of materials in micro and nano level. Nanomaterials are useful in medicine, electronics and mechanical industries and also biotechnological applications. In this context, a conference regarding the trends in advanced materials science and their technology is very relevant. Hence this conference is being organized with an aim to bring together all those who are involved in the

development of Materials Science and Technology. The main objective of this conference is to provide a platform for all the young and active scientists / engineers and UG / PG students to present their work and also to create a conducive environment to encourage lively interaction about the latest trends in this field.

Aim of the Conference

The aim is to elucidate the seamless mixing of science and engineering aspects in development of the very important interdisciplinary domain of material science. This will stage a panel of eminent researchers/ professors to seed ideas/ concepts for trans-disciplined collaborations, towards growing national and global technology demands in materials science and engineering. You are invited to present your research findings in addition to be inspired by the pioneers during the plenary sessions.

Call for Papers and Suggested Themes:

Original and Research Papers on the following indicative topics, but not limited to, are welcome to be submitted for the conference:

- **Advanced Materials for sensor applications.**
- **Advanced Materials for energy saving / storing applications.**
- **Advanced Materials for mechanical industries.**
- **Advanced Materials for electronics applications.**
- **Advanced Materials for biotechnological applications.**
- **Advanced materials for display and dosimetric applications.**
- **Advanced Materials for photo catalytic applications.**
- **Advanced Materials for solar cell applications.**
- **2D Advanced materials.**

Guidelines for Paper Submission

Authors are required to prepare papers as per the following guidelines:

- The entire paper should be typed in MS-Word using 'Times New Roman 12 font with 1.5 line spacing and margins of one inch on all sides. The manuscript should include four major sections: Title page, Abstract, Main body and references.
- Authors' affiliation and communication address should be given in the first page only.
- Papers must not have been published or accepted for publication elsewhere or be currently under any other review
- Abstract should be in single paragraph and should be between 250-300 words with 4 to 6 key words and it should follow the first page.
- The length of the paper should not exceed 8 pages or 4000 words including title page and references.
- References should be given at the end of the paper in the APA Style (6th edition).
- **Soft copy of the paper with Abstract**, duly filled in registration form, copyright along with DD should be sent to **the Conference Convener Dr.H. Nagabhushana Professor and Chairman, DOSR in Physics, Tumkur University, Tumkur-3** on or before **20th November 2017**.
- Soft copy may be submitted by electronic mail to tudosrp@gmail.com

PUBLICATION AND CRITERIA FOR EVALUATION

The paper (in English) should be original and unpublished offering new insights, new approach or new knowledge to the body of literature. Papers will go through a blind review process and selected papers will be published in the **conference proceedings**. Selected papers screened by the committee will be considered for publication **in an ISBN edited book**. (Price of the edited book will be informed later).

An electronic copy of the abstract in MS Office Word 2007 version should be mailed to the conference Convener not later than **20th November 2017** to include it in the publication.

Registration Fee

Students	₹. 200
Academicians /Research Scholars	₹. 500
Industry delegates	₹. 1,000

Registration fee includes Coffee/Tea, Lunch and Conference kit. Author and co-authors must have to register separately for the conference.

Payment

DD should be drawn in favour of *'The Finance Officer, Tumkur University, payable at Tumkur'* Karnataka.

Important Dates

Last date for submission of abstract with full paper: **20th November 2017**.

Last date for registration: **30th November 2017**.

Accommodation

Accommodation can be arranged on request and on payment only.

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Vice-Chancellor

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Professor & Chairman
Dept. of Studies & Research in Physics

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For further details contact:

Conference Convener

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Registration Form

Name: Designation

Name of the co-author: Designation

Organisation:

Address:

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.....

Telephone : Mob:

Mail ID :

Paper Title :

.....

Accommodation: Required / not required

Payment Details: (A single DD is acceptable for first and co-authors):

DD No. for Rs..... Date: / / 2017 in favour of *'The Finance Officer, Tumkur University, payable at Tumkur, Karnataka.*

Date:

Place:

Signature of the Authors

All the Correspondence should be addressed to

Dr. H. Nagabhushana, Professor & Chairman

Conference Convener – NC – TAMA-2017

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