

## ABV-Indian Institute of Information Technology & Management, Gwalior

Atal Bihari Vajpayee - Indian Institute of Information Technology & Management, Gwalior (ABV-IIITM, Gwalior), a Deemed University, is an apex IT and Management Institute, established by the ministry of HRD, Government of India. ABV-IIITM Gwalior strives to become a world-class institution, thereby contribute towards research and education producing technology and business leaders. It integrates management as a concept with technology as a platform to create a synergic approach for solving emerging industry problems.

The institute has been accorded the status of autonomous university and conducts its own examinations and awards degrees at masters and doctorate levels. The Institute is built on a 160-acre campus on the foothills of Gwalior Fort. The networked smart campus is self contained with all basic facilities for all round development of students' personality. The Institute is a dynamic source of intellectual energy with strong connection to the business world, its focus being on collaborative efforts like flexible curriculum design, curriculum delivery, mentoring of students by professionals from the corporate world, summer internship projects and final placements.

The Institute's core faculty consists of well known, diverse and talented professionals. In addition, adjunct and visiting faculty, from the industry and from other top academic institutions and research organizations, contribute to keep course delivery abreast with the latest developments keeping in view the requirements of the professional world.

### About Gwalior

Located at a strategic site, in the Grid region of Northern India, Gwalior is a celebrated city of Madhya Pradesh. With its white sandstone mosques, studded temples and soaring buttresses, the place recounts the majesty of the Indian soil. A chronicler of the rise and fall of many dynasties, the place still retains its antique vaudeville in its art and architecture. Tourists from all over the world trot to the place to get a glimpse of its fine enmeshing of antiquity and modernity. Boasting of a rich historical saga, Gwalior is one of the most prominent tourist destinations in Central India. Gwalior Fort, positioned at a height of 100m above the main town of Gwalior, this staggering citadel dominates the skyline of the place and is acknowledged as the most impregnable fort in the whole of Central and Northern India. Built by Raja Man Singh Tomar, in the 15th century, its beauty has earned it the epithet of "The Pearl amongst Fortresses of India" by the Mughal ruler 'Babur'. The fort is girdled by sandstone walls and stretches over an area of 3 sq km. It houses three temples, six palaces and a large number of water tanks.



political arena of India.

Today, the city is also famous for the educational institutions like Indian Institute of Information Technology and Management, Indian Institute of Travel and Tourism Management, Scindia School, and Laxmibai National Institute of Physical Education attracting students from every nook and corner of the country.

### Weather

The climate of Gwalior is extreme with hot summers and cold winters. The temperature during the summer months can touch as high as 46°C, while in the winters it can go down to below 5°C. Monsoon starts from the first week of June and remains there till August/September.



**By Air**  
Gwalior airport is located 8km from the main city. It is connected to all the major cities in India by direct flights.

**By Road**  
Gwalior is well connected by a good road network connecting all the major places in Madhya Pradesh and the surrounding areas. Gwalior is well linked with all the major cities of India.

### By Train

Gwalior railway station is conveniently located on the Delhi-Mumbai and Delhi -Chennai rail link. Among major trains, the Taj and Shatabdi Express connect Gwalior with Delhi and Agra.



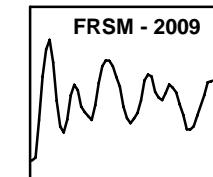
Held in succession by the Mughals, Jats, Marathas and the British, Gwalior was finally handed over to Jiyaji Rao Scindia at a formal durbar in 1885. The Scindias were the last ruling family of Gwalior and are still influential in the



## International Symposium Frontiers of Research on Speech and Music (FRSM - 2009)

15-16, December, 2009

Special Theme  
"Signal Processing of Speech and Music"



Organised by

ITC Sangeet Research Academy, Kolkata  
CDAC, Kolkata

Sir C V Raman Centre for Physics and Music,  
Jadavpur University, Kolkata

&

ABV Indian Institute of Information Technology  
and Management, Gwalior

Venue

ABV Indian Institute of Information Technology  
and Management, Gwalior

## About the Symposium

The international symposium "Frontiers of Research on Speech and Music (FRSM) is organised in different parts of India, every year, to provide a platform for the scientists and technologists for interaction since 1990. Previously the symposium was held in the name of "International workshop on Recent Trends in Speech, Music and Allied Signal Processing". Till date, these symposiums were held at Kolkata, Varanasi, New Delhi, Santiniketan, Thiruvananthapuram, Kanpur, Annamalai, Bhubaneswar, Lucknow and Mysore to promote research interest in these areas to researchers working in different fields like physics, mathematics, linguistics, musicology, electronics and computer science.

The continuation of these events would not have been possible without the active co-operation of Indian Statistical Institute, Banaras Hindu University, Visva Bharati University, International School of Dravidian Linguistics, IIT Kanpur, Annamalai University, Utkal University, Uttar Pradesh Technical University, Jadavpur University, All India Institute of Speech and Hearing and Acoustical Society of India and active participation of various research groups particularly, Tata Institute of Fundamental Research, Indian Institute of Science, various IITs and Indian and foreign universities and institutions.

The two-day symposium on **Frontiers of Research on Speech and Music (FRSM – 2009)** will be held at ABV- Indian Institute of Information Technology & Management, Gwalior (ABV-IIITM Gwalior), India, during 15-16 December, 2009. It will be jointly organised by the ITC Sangeet Research Academy, Kolkata, CDAC, Kolkata, Sir C V Raman Centre for Physics and Music, Jadavpur University, Kolkata and ABV- Indian Institute of Information Technology, Gwalior. This symposium is intended to highlight the current status and trends of research and applications in the area of Speech, Music and Allied Signal Processing. To make this event more broad based it has been decided to include language processing from the last year.

Invited and some contributed papers related to speech, music, language and allied signal processing will be considered for presentation and publication. The topics include:

Speech Analysis, Synthesis and Perception, Speech Coding/Decoding and Enhancement, Acoustic Phonetics, Spoken Language Processing, Phonetic/Phonological Systems for Indian Languages, Speech Prosody and Labeling, Speech Processing Models and Systems, Music Analysis, Synthesis and Cognition, Music Acoustics, ethnomusicology, music psychology, Music Information Retrieval, Musical Creativity, Origins and Evolution of Music, Emotion in speech and music, music therapy and Signal Processing and applications in these areas.

## International Advisory Committee

**Prof. S. G. Deshmukh, Director, ABV-IIITM, Gwalior (Chairman)**  
Dr. V. Vyas, Exe. Director, ITC SRA, Kolkata  
Prof. P. N. Ghosh, VC, Jadavpur University  
Prof. H. V. Sahasrabuddhe, Pune  
Mr. Pankaj Agarwala, MCIT, New Delhi  
Prof. A. N. Basu, Chairman, PCB, Kolkata  
Prof. S. G. Dhande, Director, IIT Kanpur  
Prof. V. I. Subramonium, Hon.Director, ISDL, Kerala  
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Prof. J. Sundberg, KTH, RIT, Sweden  
Dr. Bret Battey, De Montfort University, UK  
Prof. W. M. Hartman, Michigan State Univ., USA  
Prof. U. J. Hansen, Indiana State Univ. USA  
Prof. K. N. Stevens, MIT, USA

## Organising Committee

**Prof. A. K. Datta, ITC SRA, (Chairman)**  
Prof. D. Ghosh, J.U, Kolkata  
Dr. R. Sengupta, ITC SRA, Kolkata  
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Mr. M. Chakraborty, ITC SRA, Kolkata  
Dr. S. Ghosh, University of Delhi  
Mr. S.K. Das Mandal, CDAC, Kolkata  
**Smt. Dipali Nag, ITC SRA, Kolkata, Convenor**

## Local Organising Committee

Dr. Anupam Shukla (Co-ordinator), ABV-IIITM, Gwalior  
Dr. Joydeep Dhar, ABV-IIITM, Gwalior  
Dr. Mahua Bhattacharya, ABV-IIITM, Gwalior  
Dr. K V Arya, ABV-IIITM, Gwalior  
Dr. Ritu Tiwari, ABV-IIITM, Gwalior

## Programme Committee

**Prof. Phalguni Gupta, IIT Kanpur (Chairman)**  
Dr. S. S. Agrawal, CDAC, Noida  
Prof. A. K. Datta, ITC SRA, Kolkata  
Dr. R. Ravindra Kumar, CDAC, Kolkata  
Prof. A Basu, IIT Kharagpur  
Prof. B. Gupta, Jadavpur University  
Dr. Anupam Shukla, ABV-IIITM, Gwalior  
Dr. R. Sengupta, ITC SRA, Kolkata  
Sri N. Dey, ITC SRA, Kolkata

## Call for Papers

Researchers are invited to submit extended abstracts (1000 words) of original unpublished research work in the related fields by [E-mail: [frsm2009@gmail.com](mailto:frsm2009@gmail.com)] in MS Word format. Alternatively, a hardcopy of the abstract can be sent to **Prof. A. K. Datta, Chairman, Organizing Committee- Frontiers of Research on Speech & Music (FRSM - 2009), Scientific Research Department, ITC Sangeet Research Academy, Tollygunge, Kolkata 700 040.** The submitted abstracts will be reviewed carefully and only accepted papers will be published in the Symposium proceedings.

## Important Dates

August 30, 2009	Last date of abstract submission
September 15, 2009	Notification of Paper Acceptance
November 15, 2009	Final Camera-Ready Paper
November 30, 2009	Last Date of Registration

*Instructions for the preparation of camera-ready manuscript will be sent along with the notification of paper acceptance.*

## Accommodation

Accommodation for **registered** participants will be available in the Guest Houses at the Institute on first come first serve basis. Participants desirous of getting accommodation should inform along with their travel schedule to Dr Anupam Shukla, ABV-IIITM, Gwalior, Ph: 0751-2449707, [E-Mail: [anupamshukla@iitm.ac.in](mailto:anupamshukla@iitm.ac.in)] with a copy to convenor, (FRSM - 2009), before November 30, 2009.

## Registration Fee

Registration fee by demand draft in favour of **'Frontiers of Research on Speech and Music'** payable at Kolkata along with Registration form may be sent to the Convenor.

Students (Indian) within 30 <sup>th</sup> .Nov.'09	Rs. 750/-
Students (Indian) after 30 <sup>th</sup> .Nov.'09	Rs. 850/-
Students (Foreign) within 30 <sup>th</sup> .Nov.'09	US \$ 60
Students (Foreign) after 30 <sup>th</sup> .Nov.'09	US \$ 70
Others; within 30 <sup>th</sup> .Nov.'09	Rs. 1500/-
Others; after 30 <sup>th</sup> .Nov.'09	Rs. 1600/-
Foreign Delegates; within 30 <sup>th</sup> .Nov.'09	US \$ 100
Foreign Delegates; after 30 <sup>th</sup> .Nov.'09	US \$ 110

The registered participants would get conference material, which include a copy of the proceedings. However as accommodation and other facilities are limited, prior intimation is necessary. **Local hospitality may be free subject to the availability of funds.**

**Registration Form for  
Frontiers of Research on Speech and  
Music (FRSM – 2009)**

Name \_\_\_\_\_

Designation \_\_\_\_\_  
\_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

E-mail \_\_\_\_\_

Telephone \_\_\_\_\_

Fax \_\_\_\_\_

I want to attend the symposium.....Yes / No

I want to present a paper in the symposium....Yes / No

I am enclosing a DD of Rs.\_\_\_\_\_

I want an accommodation at Guest House.....Yes / No

Signature\_\_\_\_\_

To  
**Smt. Dipali Nag**  
Convenor,  
Frontiers of Research on Speech and Music  
(FRSM-2009)  
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ITC Sangeet Research Academy,  
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