

## REGISTRATION FORM

**FEL WORKSHOP 4,5,6 DECEMBER 2014**  
**SCHOOL OF PHYSICS, DAVV, INDORE**

1. Name: Mr./Ms./ Dr./ Prof. ....

2. Status : Faculty/ Research Scholar/ Student/  
Scientist .....

3. Affiliation: .....

4. Address for Correspondence with email id:  
.....  
.....  
.....

5. Tel: ..... (Office)

..... (Residence)

..... (Mobile)

6. Accommodation Required/ Not Required

7. Arrival Details: .....

8. Departure Details: .....

### UNDERTAKING

If selected for participation, I will arrange my own/need travel support, and will attend the workshop for the entire duration..

Name: .....

Signature: .....

Date: .....

Completed Registration forms should reach the convener through e-mail by 15/11/2014. Confirmation of participation will be send by e-mail only.

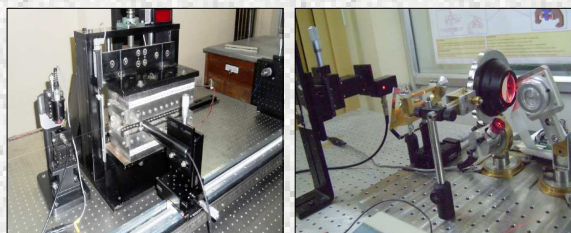
Dr. G Mishra  
The Convener, FEL Workshop, 2014  
School of Physics, DAVV, Khandwa Road  
Indore - 452001, India

E-mail ID :  
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The workshop is financially supported by SERB (Delhi), DRDO (Delhi) and DAVV (Indore).

### **INSERTION DEVICE DEVELOPMENT & MEASUREMENT LAB**

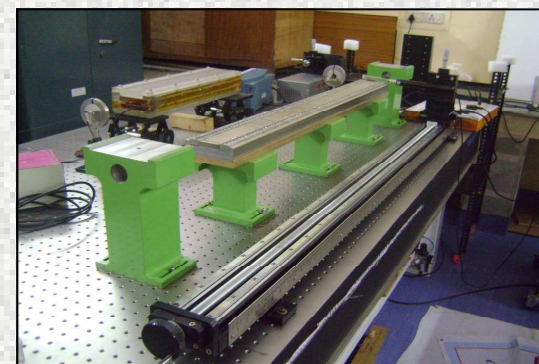


## Announcement & Call for Participation

**GOLDEN JUBILEE YEAR  
INTERNATIONAL WORKSHOP  
ON**

**SCIENCE AND  
TECHNOLOGY OF FREE  
ELECTRON LASER**

**4,5,6 DECEMBER, 2014**



Organized by  
**Insertion Device Development &  
Measurement Lab**

**School of Physics**

Devi Ahilya University Indore , India -452001

## ABOUT UNIVERSITY

[www.dauniv.ac.in](http://www.dauniv.ac.in)

Devi Ahilya Vishwavidyalaya (DAVV), formerly University of Indore, is a premier University in Central India, completing its 50th year of establishment, educational commitment and services. It is the only State University of Madhya Pradesh which has been recently accredited with "A" grade by NAAC. It was established in 1964, by an Act of Legislature of Madhya Pradesh. The University serves around 1,80,000 students every year through well qualified human resources, with diversified course structure, interdisciplinary research and value-based education. There are twenty seven teaching departments offering undergraduate, post-graduate and research programs in sixteen Faculties. DAVV is the pioneer university in starting the Self Supporting courses in the country. The University provides and nurtures environment for promoting high quality original research. Then University has open access to online national and international journals with connectivity under UGC-INFLIBNET It has well equipped Sports Centre, Play Grounds, Gymnasium, Cultural Centre and Student Welfare Department to encourage student participation in sports, cultural and extra-curricular activities.

## INDORE

Indore, the industrial and commercial city of MP, India is well connected to other cities of India by rail, road and air. The city is named after Lord Indreshwar and is growing hub of higher technical education and learning in central India.



RRCAT & UGC-DAE Center for Scientific Research, IIT and IIM along with several Engineering and Medical Institutes are located here. Rajbada, Lalbagh Palace and Jain Kanch Mandir are some of the historical places of the city worth visiting. Mahakal temple at Ujjain and Omkareshwar temple are the nearby holistic places of tourist interests.

### SCHOOL OF PHYSICS

School of Physics is situated at the Takshshila campus of the university. The School offers courses leading to M Sc (Physics) , M Phil (Physics) and M Tech (Laser Science and Applications) degrees with major research activities are in the field of lasers, free electron lasers and material science. This activities are financially supported by UGC-DAE CSR (Indore), RRCAT (Indore), SERB (Delhi), BRNS (Mumbai), DRDO (Delhi).

### ACCOMODATION & TRAVEL

Participation at the workshop is through invitation only. The outstation participants who can arrange their own travel expenses will be given preferences. There will be limited seats for participation . All outstation participants will be provided accommodation by the organizers.

## THEME OF THE WORKSHOP

The theme of the workshop is on undulator technology and free electron laser science. The national and international free electron laser facilities will be discussed with focus on the design issues of laser - plasma accelerator for free electron lasers.

### SOME PROSPECTIVE SPEAKER

Some prospective speakers from RRCAT (Indore), DAVV (Indore), NPL (Delhi), IIT (Delhi) , Tel-Aviv University (Israel), DESY (Germany), Michigan State University (USA), Soleil (France), Kangwon National University (South Korea), IPR (Gandhinagar), IUCA (Delhi) are expected to deliver lecture and share their work experience on undulator technology and free electron laser at the workshop.

### LOCAL ORGANIZING COMMITTEE

Dr. D P Singh, Hon'ble VC, DAVV, Indore (Patron)

A Mishra, DAVV, Indore, (Chairman)

A K Dutta, DAVV , Indore

P Sen , DAVV, Indore

D Varshney , DAVV, Indore

G Mishra, DAVV, Indore

M Banerjee, DAVV, Indore

S N Kane, DAVV, Indore

Y Choyal , DAVV, Indore

Mona Gehlot, DAVV, Indore

Anjum Sheikh, DAVV, Indore

**International Workshop on Science and Technology of Free Electron Laser, 4-6 December 2014**

**Venue: School of Future Studies & Planning, DAVV, Indore**

**Insertion Device Development and Measurement Lab, DAVV, Indore, 452001, India**

**4 Dec 2014**

No	Time	Speaker & Affiliation	Title of Talk
	9:00-10:00	Registration & Inauguration	
<b>10.00-10.30</b>		<b>Tea Break</b>	
<b>Chair person: Michael A Green</b>			
I1	10:30-11:30	Markus Tischer, DESY, Germany	Review and perspectives in undulator technology
I2	11:30-12:30	Peter Michel, Dresden, Germany	Basics and applications of oscillator FEL's for IR radiation
I3	12:30-13:30	Marie-Emmanuelle Couprie, SOLEIL, France	Insertion Devices development at Soleil
	13:30-15:00	<b>Lunch Break</b>	
<b>Chair person: Peter Michel</b>			
I4	15:00-15:45	KK Pant ,RRCAT, Indore, India	FEL activity at RRCAT, Indore, India
I5	15:45-16:30	S.Ghosh ,IUAC, Delhi, India	Delhi Light Source ( DLS ) – A proposed FEL activity at IUAC, Delhi
	16:30-16:45	<b>Tea Break</b>	
I6	16:45-17:15	G.Mishra, DAVV, Indore, India	Overview of Insertion Device Development & Measurement Lab at DAVV, Indore
I7	17:15-17:45	Hussain Jeeva Khan, NITTTR, Bhopal, India	Magnetic measurements of undulator
C1	17:45-18:00	Roma Khullar, DAVV, Indore	Design studies of a laser micrometer for tapered gap undulator measurements

**5 Dec 2014**

<b>Chair person: Marie Emmanuelle Couprie</b>			
I8	9:00-10:00	Markus Tischer, DESY, Germany	Undulator developments at DESY
I9	10:00-11:00	Michael A Green, FRIB,MSU,USA	Some comments about Superconducting Insertion Magnets
	11:00-11:30	<b>Tea Break</b>	
I10	11:30-12:30	Peter Michel, Dresden, Germany	The radiation source ELBE with IR FELs and coherent THz sources
I11	12:30-13:30	A D Ghodke, RRCAT, Indore, India	Indus Synchrotron radiation source at RRCAT, Indore, India
	13:30-15:00	<b>Lunch Break</b>	
<b>Chair person: G. Mishra</b>			
I12	15:00-15:45	B S Rao, RRCAT, Indore, India	High Brightness electron beams from laser driven plasma accelerators: Prospects of compact FEL
I13	15:45-16:30	M. Jewaria, NPL, Delhi, India	High power Tera Hertz pulse generation using LiNbO <sub>3</sub> and its applications
	16:30-16:45	<b>Tea Break</b>	
I14	16:45-17:30	K. P. Maheshwari, University of Kota, Kota, India	Effect of Initial Conditions on Highly Efficient Relativistic-Ion Acceleration in the Intense Laser Radiation Pressure Regime
I15	17:30-18:00	Y. Choyal, DAVV, Indore, India	Development of relativistic electron beam driven Back ward wave oscillator ( BWO ) at DAVV, Indore, India

**6 Dec 2014**

<b>Chair person: Markus Tischer</b>			
I16	9:00-10:00	Michael A Green, FRIB,MSU,USA	Cryogenic cooling for superconducting Insertion Magnets for light sources and free electron lasers
I17	10:00-11:00	Marie Emmanuelle Couprie, SOLEIL, France	The LUNEX5 Project
	11:00-11:30	<b>Tea Break</b>	
I18	11:30-12:30	B.S.Rao , RRCAT, Indore, India	Progress and applications of laser plasma accelerators
I19	12:30-13:30	Vinit Kumar ,RRCAT, Indore ,India	Grating and Dielectric based free electron lasers
	13:30-15:00	<b>Lunch Break</b>	
<b>Chair person : K K Pant</b>			
I20	15:00-15:45	A P. Deshpande, SAMEER, Mumbai India	LINAC activities at SAMEER
C2	15:45-16:00	Geetanjali Sharma, DAVV, Indore	Wake-field accelerator for FEL applications
C3	16:00-16:15	Nidhi Parmar, DAVV, Indore	Microwave generation from large orbit neutralised electron beam
C4	16:15-16:30	Deepi Jain, IPS Academy, Indore	Analysis of Optical-Klystron waveguide free electron laser
	16:30-16:45	<b>Tea Break</b>	
C5	16:45-17:00	Mona Gehlot	Design & measurements of table-top harmonic undulators
C6	17:00-17:15	Yashvir Kalkal	Three-dimensional analysis of the surface mode in a Cerenkov free-electron laser
	17:15-18:00	<b>Closing of the workshop by Dean of Science</b>	