

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:
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.....
.....

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.

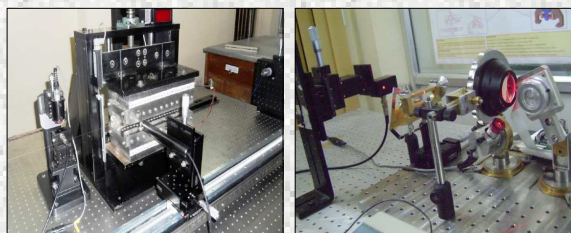
Dr. G Mishra
The Convener, FEL Workshop, 2014
School of Physics, DAVV, Khandwa Road
Indore - 452001, India

E-mail ID :
gmishra_dauniv@yahoo.co.in

Phone:
+91-731-2446754 (Residence)
+91-9893398807 (Mobile)

The workshop is financially supported by SERB (Delhi), DRDO (Delhi) and DAVV (Indore).

INSERTION DEVICE DEVELOPMENT & MEASUREMENT LAB

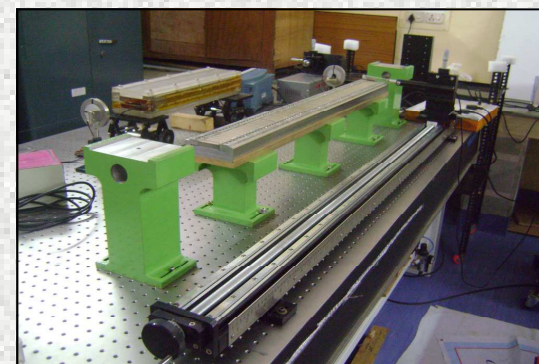


Announcement & Call for Participation

**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

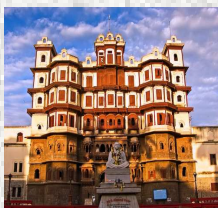
ABOUT UNIVERSITY

www.dauniv.ac.in

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 | |
| | 10.00-10.30 | Tea Break | |
| Chair person: Michael A Green | | | |
| 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 | Lunch Break | |
| Chair person: Peter Michel | | | |
| 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 | Tea Break | |
| 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

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| Chair person: Marie Emmanuelle Couprie | | | |
| 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 | Tea Break | |
| 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 | Lunch Break | |
| Chair person: G. Mishra | | | |
| 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 ₃ and its applications |
| | 16:30-16:45 | Tea Break | |
| 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

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| Chair person: Markus Tischer | | | |
| 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 | Tea Break | |
| 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 | Lunch Break | |
| Chair person : K K Pant | | | |
| 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 | Tea Break | |
| 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 | Closing of the workshop by Dean of Science | |