

2nd Meghnad Saha Memorial International Symposium-cum-workshop on**“Laser Induced Breakdown Spectroscopy”**

February 19-213, 2018

February 18, 2018 Registration: 16:00-20:00 Venue: Department of Physics, University of Allahabad
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Technical Program on 19th February, 2018 Day- 1

Registration: 08:-09:45 Venue: Department of Physics, University of Allahabad

Breakfast: 08:00-09:00 Venue: Department of Physics, University of Allahabad
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Inaugural Function: 10:00-11:00 Venue: DD Pant Auditorium, Department of Botany University of Allahabad, Allahabad

High Tea: 11:00-11:20 Venue: DD Pant Auditorium, Department of Botany, University of Allahabad

Technical Session I : Inaugural Lectures Session Chairperson: Prof. S. N. Thakur Department of Physics, Banaras Hindu University, Varanasi Venue: DD Pant Auditorium, Department of Botany, University of Allahabad
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Time	Name and Address	Topic
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11:20-12:05	Prof. Robert Fedosejevs Department of Electrical and Computer Engineering, University of Alberta, Edmonton, AB T6G2V4 Canada	“Laser Induced Breakdown Spectroscopy for High Sensitivity and High Resolution Detection of Material Composition”
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12:05-12:50	Prof. Siva Umamathy Chairman, Dept. of Inorganic and Physical Chemistry and Professor, Dept. of Instrumentation and Applied Physics, Indian Institute of Science, Bangalore	“Laser induced excited state studies using ultrafast Raman spectroscopy”
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Lunch:- 12:50-14:00 Venue: Department of Physics, University of Allahabad

Technical Session II: Invited Lectures Venue: Department of Physics, University of Allahabad Session Chairperson: Prof. Robert Fedosejevs Department of Electrical and Computer Engineering, University of Alberta, Edmonton, AB T6G2V4 Canada

14:00-14:45	Prof. P. Veis Dept. Experimental Physics, Comenius University, Bratislava, Slovakia	“Improvement of CF-LIBS by using simultaneous vacuum UV, Broadband Echelle Type and Narrow High-resolution spectrometry”
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14:45-15:15	Prof. G Manoj Kumar Advanced Centre of Research in High Energy Materials, University of Hyderabad	“Classification And Identification of Materials using LIBS with the Aid of Chemometrics”
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15:15-15:45	Prof. S. B. Rai Department of Physics, BHU, Varanasi	“Addition and division of photons in rare earth doped nanomaterials”.
15:45-16:15	Dr. Pradeep Kumar Rai Senior Consultant Nephrologist Opal Hospital, DLW Road, Varanasi	“Application of LIBS in Renal Science”
16:15-16:30	Tea break:- Venue: Department of Physics, University of Allahabad	
16:30-18:00	Poster Presentation and Oral presentation in Parallel session Venue: Department of Physics, University of Allahabad	
Dinner: 19:30-21:30 Venue: Department of Physics, University of Allahabad		

MMISLIBS- II 2018

2ND Meghnad Saha Memorial International Symposium-cum-workshop on

“Laser Induced Breakdown Spectroscopy”

February 19-21, 2018

Technical Program on 20th February, 2018 Day- 2

Time	Name and Address	Topic
Breakfast: 08:00-09:00 Venue- Department of Physics, University of Allahabad		
Technical Session III: Invited Lecture Venue: Department of Physics, University of Allahabad Session Chairperson: Prof. B. K. Agrawal Department of Physics Allahabad University, Allahabad		
09:00-09:30	Prof. Jayanta Kumar Pati National Centre of Experimental Mineralogy and Petrology (NCEMP) and Department of Earth and Planetary Sciences, University of Allahabad	“Towards resolving some complex Earth and Planetary Science problems using Laser-induced Breakdown Spectroscopy technique”.
09:30-10:15	Prof. Shiv K. Sharma Hawaii Institute of Geophysics and Planetology, University of Hawaii, 1680 East-West Road, Honolulu, Hawaii, 96822. USA	“Applications of Combined Standoff LIBS and Raman Spectroscopy for Planetary Exploration”.
10:15-11:00	Prof. Soma Venugopal Rao Advanced Centre of Research in High Energy Materials, University of Hyderabad, Hyderabad, 500046, Telangana, India.	“Standoff Detection of Explosives Using Femtosecond LIBS Technique”
11:00-11:15	Tea Break:- Venue: Department of Physics, University of Allahabad	
Technical Session IV: Popular Lectures Venue: Department of Physics, University of Allahabad Session Chairperson: Prof. Hari Prakash, Department of Physics Allahabad University, Allahabad		
11:15-12:15	Prof. S. N. Thakur Department of Physics, Banaras Hindu University, Varanasi	“Listening to the Sound of Light and the Sound of Gravitational waves with Laser”
12:15-13:00	Prof. Christian Parigger University of Tennessee, Space Institute, Center for Laser Applications, 411 B.H. Goethert Parkway, Tullahoma, TN 37388-9700, USA	“On Spectroscopy of Laser-Induced Plasma”

Lunch: 13:00-14:00		
Venue: Department of Physics, University of Allahabad		
Technical Session V: Invited Lectures		
Venue: Department of Physics, University of Allahabad		
Session Chairperson: Prof. B. K. Ghosh Department of Physics, Allahabad University, Allahabad		
14:00-14:45	Commercialization of LIBS: Industrial Representatives	
	1. Research India 2. ATOS, Bangalore 3 New Age Int. PVT. LTD	
14:45-15:15	Prof. Jinesh Jain AECOM, PO Box 618, Pittsburgh, PA 15129	“Rapid identification of the groundwater contaminants using LIBS ”
15:15-15:45	Prof. V. Palleschi Applied Laser and Spectroscopy Laboratory, ICCOM/CNR Pisa, Italy	“Nanoparticles, 3D mapping, Neural Networks: New trends in Laser- Induced Breakdown Spectroscopy”
15:45-16:00	Tea Break:- Venue: Department of Physics, University of Allahabad	
Technical Session VI: Invited Lectures		
Venue: Department of Physics, University of Allahabad		
Session Chairperson: Prof. Christian Parigger University of Tennessee, Tullahoma, USA		
16:00-16:30	Prof. Alike Khare Department of Physics, Indian Institute of Technology, Guwahati, India	“Implication of Laser Induced Plasma Parameters on Properties of Pulsed Laser Deposited Thin Films”
16:30-17:00	Prof. K. K. Mahato Head, Department of Biophysics, Manipal Academy of Higher Education (formerly known as Manipal University), Manipal - 576 104, Karnataka	“Scope of auto-fluorescence in biomedical investigations: our experience at Manipal”
17:00-18:00	Poster Presentation and Oral Presentation in Parallel session Venue: Department of Physics, University of Allahabad	
Cultural Evening: 18:30-20:00		
Dinner: 20:00-21:30		
Venue: Department of Physics, University of Allahabad		

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**2ND Meghnad Saha Memorial International Symposium-cum-workshop on
“Laser Induced Breakdown Spectroscopy”**

February 19-21, 2018

Technical Program on 21th February, 2018 Day- 3

Time	Name and Address	Topic
Breakfast: 08:09:00		
Venue: Department of Physics, University of Allahabad		
Technical Session VII: Invited Lectures		
Venue: Department of Physics, University of Allahabad		
Session Chairperson: Prof. Ranjana Prakash Department of Physics, University of Allahabad		
09:00-09:30	Dr. D. Alamelu Former Head, Mass Spectrometry Section, Fuel Chemistry Division BARC, Mumbai	“Laser Ablation : A Potential Tool for Material Characterization”

09:30-10:00	Prof. J. P. Singh Institute for Clean Energy Technology and Department of Physics and Astronomy, Mississippi State University, USA, Starkville	“Laser Induced Breakdown Spectroscopy: Application to Food Sciences”
10:00-10:00	Dr. Ajai Kumar Institute For Plasma Research Bhat, Gandhinagar- 382 428	“Application of Laser-induced breakdown spectroscopy (LIBS) in nuclear fusion technology”
10:00-10:30	Dr. V. K. Unnikrishnan Department of Atomic and Molecular Physics, Manipal Academy of Higher Education, Manipal	“Hybrid LIBS-Raman technique: A potential tool for material characterization”
10:30-11:00	Dr. V. N. Rai Raja Ramanna Centre for Advanced Technology, PO: Rajendranagar, Indore	“An understanding of physical processes during laser induced breakdown spectroscopy”
11:00-11:15	Tea break:- Venue: Department of Physics, University of Allahabad	
Technical Session VIII: Invited Lectures Venue: Department of Physics, University of Allahabad Session Chairperson: Prof. J. P. Singh Institute for Clean Energy Technology and Department of Physics and Astronomy, Mississippi State University, USA, Starkville		
11:15-11:45	Prof. Udit Chatterjee Department of Physics, Laser Laboratory, Golapbag, The University of Burdwan, Burdwan, West Bengal	“Development of widely tunable sources from UV to IR using nonlinear frequency mixing”
11:45-12:15	Prof. Subhash. Behere Formerly at the Department of Physics, Dr. Babasaheb .Ambedkar Marathwada .University, Aurangabad -431004. India	“Estimation of the Rotational Temperature from Spectral Lines of MgH Molecule Observed in Sun Spot Umbra”
12:15-12:45	Prof. Ranjan Kumar Singh Department of Physics, Institute of Science, Banaras Hindu University Varanasi – 221005, UP, India.	“Application of Raman Spectroscopy”
Lunch: 12:45-14:00 Venue: Department of Physics, University of Allahabad		
Technical Session IX: Invited Lectures Venue: Department of Physics, University of Allahabad Session Chairperson: Prof. Ram Gopal Department of Physics, University of Allahabad		
14:00-14:30	Prof. Kehar Singh Department of Physics Indian Institute of Technology, Delhi	“Photorefractive Optical Cryptography for Security Applications”
14:30-15:00	Prof. A. G. Barua Department of Physics, Gauhati University, Guwahati-781014, India	“Some aspects of the light of the firefly”
15:00-15:30	Prof. G. D. Baruah Centre for Laser and Optical Science, New Uchamati, Doom Doo - 786151	“Self Consistency of Natural laws in Quantum optics, Laser and other domains”
15:30-17:00	Poster Presentation and Oral Presentation in Parallel session Venue: Department of Physics, University of Allahabad	
Valedictory Function: 17:00-18:30 Venue: Department of Physics, University of Allahabad		