

**INTERNATIONAL CONFERENCE ON ADVANCES IN BASIC SCIENCES
(ICABS19)
February 7-9, 2019**

**Technical Programme
Thursday, February 7, 2019**
7:30 am - 09:30am Registration & Welcome in ICABS19
Inaugural Function (9:30am - 12:00noon)
Venue: Vivekanand Auditorium
7:30 am – 8.30 am Breakfast at BRCM Campus

Chief Guest: Prof. R.K. Mittal, VC, CBLU (Bhiwani)			
Chairperson:			
Plenary Talk: Prof. A. K. Chaudhary			
Tea Break (12.05pm-12.30pm) and Group Photo			
First Session		Session Chair: Prof Devender Mohan	
12:30pm -1:00pm	Bactericidal Effectiveness of Cinnamon Nanoparticles	Prof S. K. Ghoshal	
1:00pm -1:30pm	The Smart Materials for Transformation Optics and creating Invisibility: Metamaterials	Prof S. K. Chakarvarti	
LUNCH 1:30 pm TO 2:30 pm			
Thursday, February 7, 2019			
Venue: Seminar Hall (BRCM Law College)			
Second Session		Session Chair: Prof A. K. Chaudhary	
2:30pm- 3:00pm	A global quest for an unlimited, sustainable energy source for future generations	Prof. R. Shankar	
3:00pm- 3:30pm	Preparation Condition, Composition And Post-Preparation Thermal Treatment Assisted Control Of Structural And Magnetic Properties Of Spinel Nano Ferrites	Prof S. N. Kane	
ORAL PRESENTATION			
	Seminar hall -I	Seminar hall -II	Seminar hall -III
Session Chair:	Prof A. K. Chaudhary	Prof Igor Lukacevic	Dr. Sanjeev Kr. Gupta
3:30pm-3:40pm	A-001	B-007	B-024
3:40pm-3:50pm	A-004	B-008	B-035
3:50pm-4:00pm	B-003	B-020	B-036
4:00pm-4:10pm	B-006	O-007	B-044
4:10pm-4:20pm	O-014	I-047	I-048
Tea break 4:10 to 4:25			
Third Session		Session Chair: Prof. S. Sanghi	
4:30pm-5.00pm	Understanding the Basic sciences –Physics, Chemistry and Biology of Solids via X-ray Emission Techniques	Dr. Daisy Joseph	
ORAL PRESENTATION			
	Seminar hall -I	Seminar hall -II	Seminar hall -III
Session Chair:	Prof. S. Sanghi	Prof. R. Shankar	Prof. R. S. Kundu
5.00 pm-5.10 pm	C-012	E-011	F-004
5.10 pm-5.20 pm	D-009	E-012	F-011
5.20 pm-5.30 pm	C-010	E-021	F-016
5.30 pm-5.40 pm	D-013	E-025	F-027
Poster Session 5:30 pm to 7:00 pm			
(A-002-3, A-005-08, A10-13, B-001-2, B-005, B-009-10, B-012-19, B-021, B-023, B-025, B-027-34, B-037-43, B-045, C-001-6, C-009, C-011, C-015-19, D-001-8, D-010-12, E-001-5, E-007-10, E-013-15, P-008, N-002, N-011)			
Cultural Programme 7:00 pm to 8:00 pm			
Venue: Vivekanand Auditorium)			
Dinner : 8:00 pm to 9:30 pm			

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**Technical Programme
Friday, February 8, 2019
Venue: Seminar Hall (BRCM Law College)
7:30 am – 8.30 am Breakfast at BRCM Campus**

First Session			
Poster Session 8:00 am to 9:30 am (E-016-18,E--020,E-022-24,E-026-42,F-001,F-005-10,F-013-15,F-017-26,F-029-31,F-033,G-001-4,G-007-9,G-011-15,H-002-4,H-006-7,H-012-13,H-016-18,I-001-2,I-004-5,I-007-12, I-036,I-041,I-051, B-004)			
Session Chairman: Prof S. N. Kane			
9:30am-10:00am	Title: Spin nano-diodes based on doped hexagonal BN	Prof Igor Lukacevic	
10:00am-10:30am	Advances in materials for multifunctional applications	Prof. R. P. Tandon	
ORAL PRESENTATION			
	Seminar hall -I	Seminar hall -II	Seminar hall -III
Session Chair:	Prof. S. N. Kane	Dr. Daisy Joseph	Dr. D. Kumar
10:30am-10:40am	F-028	H-005	I-058
10:40am-10:50am	F-032	I-003	I-060
10:50am-11:00am	G-006	I-023	J-005
11:00am-11:10am	G-010	I-029	J-009
11:10am-11:20am	G-016	I-033	J-010
11:20am-11:30am	H-001	I-056	J-016
Tea break 11:30am to 11:45am			
Second Session	Session Chair: Prof S. K. Ghoshal		
11:45 am-12:15 pm	The Melting Mechanisms of (U, Pu)O ₂ Nanocrystals: A Molecular Dynamics Simulation	Dr. Kiril A. Nekrasov	
12:15 am-12:45 pm	Ion beam induced luminescence as an efficient tool for basic sciences of advanced optoelectronic applications	Prof Fouran Singh	
ORAL PRESENTATION			
	Seminar hall -I	Seminar hall -II	Seminar hall -III
Session Chair:	Prof S. K. Ghoshal	Prof. S.L. Goyal	Dr. Rahul Tripathi
12:45 pm-12:55 pm	J-018	L-044	M-048
12:55 pm-1:05 pm	L-018	L-046	M-051
1:05 pm-1:15 pm	L-028	L-048	M-053
1:15 pm-1:25 pm	L-034	L-050	N-001
1:25 pm-1:35 pm	L-042	L-052	N-013
1:35 pm-1:45 pm	L-043	M-040	O-003
LUNCH BREAK 1:50 pm to 3:00 pm			
Third Session	Session Chair: Prof. R. P. Tandon		
3:00 pm-3:30 pm	Influence of Defects on the Diffusion of Helium in Uranium Dioxide: Molecular Dynamics Study	Dr. Maxim A.Kovalenko	
3:30 pm-4:00 pm	Structural, Stability, Electronic Transport and Optical properties of Organic-inorganic hybrid Perovskite Material	Dr. Y.K.Sonvane	
Tea break 4:00 pm- 4:15 pm			
Poster Session 4:00 pm to 5:30 pm (I013-15,I-017-21,I-024-28,I-030-32,I-034-35,I-037,I-038,I-040, I-042-46,I-049-50, I-52-55,I-057,I-059,J-001,J-004,J-006-8,J-011-15,J-017,K-001-4,K-006-9,L-001-2,L-004-8,L-010-17,L-019-21,L-023-26,)			

Fourth Session	Session Chair: Prof Kuldeep Bansal		
5:30 pm-6:00 pm	Probing electronic disorder and defect states using Optical Spectroscopy	Dr. P. R. Sagdeo	
ORAL PRESENTATION			
	Seminar hall -I	Seminar hall -II	Seminar hall -III
Session Chair:	Prof Kuldeep Bansal	Dr. D. Madan	Dr. Maxim A. Kovalenko
6:00 pm-6:10 pm	O-005	O-037	O-050
6:10 pm-6:20 pm	B-022	O-042	O-053
6:20 pm-6:30 pm	O-008	O-043	O-054
6:30 pm-6:40 pm	O-012	O-044	O-055
6:40 pm-6:50 pm	O-018	O-046	P-003
6:50 pm-7:00 pm	O-020	O-047	P-005
Dinner : 8:00 pm to 9:30 pm			

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Saturday, February 9, 2019
Venue: Seminar Hall (BRCM Law College)
7:30 am – 8.30 am Breakfast at BRCM Campus

FIRST Session			
Poster Session 8:00 am to 9:30 am (A09, L-027,L-029-33,L-035-41,L-045,L-047,L-049,L-051,L-053-55,M-001-22,M-026-38,M-042-43,M-045,M-047,M-049-50,M-052,M-054-56,N-004-5,N-007,N-009-10,N-012,N-014-18)			
Session Chair: Prof S. K. Chakarvarti			
9:30 am-10:00 am	Strain-modulated dynamical stability and optical behavior of free standing metallic nanowires	Dr. Sanjeev Kr. Gupta	
10:00 am-10:30 am	Light emitting Rare-Earth doped Nanomaterials for Display Applications	Dr.S.P.Khatkar	
ORAL PRESENTATION			
	Seminar hall -I	Seminar hall -II	Seminar hall -III
Session Chair:	Prof S. K. Chakarvarti	Prof Fouran Singh	Prof. Nawal Kishore
10:30 am-10:40 am	TH1	P-012	YAA1
10:40 am-10:50 am	TH2	P-015	YAA2
10:50 am-11:00 am	TH3	R-003	YAA3
11:00 am-11:10 am	S-008	R-009	YAA4
11:10 am-11:20 am	S-010	R-010	YAA5
11:20 am-11:30 am	X-005	S-001	
11:30 am-11:40 am		S-007	
Tea break 11:30 am to 11:45 am			
Poster Session 11:30 am to 1:00 pm (O-001-2,O-004,O-010-11,O-013, O-015-17,O-019,O-022-23,O-028-30,O-0324,O-036,O-038-41,O-045,O-048-49,O-051-52,P-002,P-004,P-007, P-009,P-011,P-013-14,P-016-17,Q-001-11,R-001-2,R-004-8,R-011-12,S-002-6,S-009,X-001,X-005-16,X-020-28)			
Valedictory Function			
1.00 pm-2.00 pm	Summary of the Conference Panel Discussion Delegates' Feedback Valedictory Speech Vote of Thanks Wrap Up National Anthem		