

**(National Science Day Celebration 2015)**  
**National Conference on “Scientific Developments in 21<sup>st</sup> Century”**

**March 12, 2015**

***Inaugural Session (10:30 - 11:30 am)***

Chief Guest and Key note Speaker    Dr. D. K. Awasthi, IUCCA, New Delhi  
Chairman                                      Prof. Sangeeta Shukla, VC, Jiwaji University

High Tea Break 11:30 – 12:00 noon

***Second Session (12:00 – 1:30 pm)***

Dr. T. C. Shami                                      12:00 – 0:30 pm  
Physical sciences presentation              00:30 - 1:30 pm  
(by participants Papers P1 – p7 )

Lunch break 1:30 – 2:30 pm

***Third Session (2:30 – 5:00 pm)***

Dr. J. K. Ladda                                      2:30-3:00 pm  
Dr. M. M. Parida                                      3:00-3:30 pm                      Swine Flew  
Life sciences presentation                      3:00- 5:00 pm  
(by participants Papers L1- L7)

**March 13, 2015**

***Fourth Session (10:00 – 11:30 am)***

Prof. P. D. Gupta                                      10:00-10:30 am  
Life sciences presentation                      10:30-11:30 am  
(by participants Papers L8- L14)

Tea Break 11:30 – 12:00 noon

***Fourth Session (12:00 – 1:30 pm)***

Dr. J. P. Goyal                                      12:00-0:30 pm  
Physical sciences presentation              12:30-1:30 pm  
(by participants Papers P8- P14)

Lunch break 1:30 – 2:30 pm

***Valedictory Session (2:30 pm – onwards)***

Chief Guest                                      Dr. A. K. Saxena, Director, DMSRDE, Kanpur  
Chairman    Dr. Lokendra Singh, Director, DRDO, Gwalior

Titles of the papers along with name of author(s) are as given below.

L-1 to L-15 are selected for **oral** presentation in life sciences.

P-1 to P-14 are selected for **oral** presentation in physical sciences.

L-p1 to L-p14 are selected for **poster** presentation in life sciences.

P-p1 to P-p24 are selected for **poster** presentation in life sciences.

**(Received up to March 7, 2015)**

**Late received abstracts are listed in the end and they are selected for poster presentation.**

## **LIFE SCIENCES**

<b>Abs. no.</b>	<b>Title of paper and Authors</b>	<b>Page</b>
<b>L-1</b>	<b>Bacterial Endotoxin</b> <i>Kiran Bhadoria, Archana Shrivastav</i>	<b>1</b>
<b>L-2</b>	<b>Effect of feeding the extract of <i>Allium sativum</i> on the activities of antioxidant enzymes in alloxan induced diabetic rats</b> <i>Shiv Kumar Jayant, Nalini Srivastava</i>	<b>1</b>
<b>L-3</b>	<b>Acrylamide toxicity and its treatment prospects</b> <i>Piyush Shukla, Satendra Kumar Nirala</i>	<b>2</b>
<b>L-4</b>	<b>Aggressive behaviour of <i>Apis mellifera</i></b> <i>Jasvir Singh Dalio</i>	<b>2</b>
<b>L-5</b>	<b>Impairment in behavioral and cognitive abilities following maternal protein malnutrition</b> <i>Aijaz Naik, Nisha Patro, Ishan K. Patro</i>	<b>3</b>
<b>L-6</b>	<b>Embelin: Role in Lithium Induced Nephrogenic Diabetes Insipidus</b> <i>Santosh Bhadkariya, chakresh patley, Akanksha Garud, Navneet Garud</i>	<b>3</b>
<b>L-7</b>	<b>Combination of propolis extract and chelating agents ameliorates beryllium induced chronic toxicity in rat liver and kidney</b> <i>Satendra Kumar Nirala, R Mathur</i>	<b>4</b>
<b>L-8</b>	<b>Effect of Global Warming on Beekeeping: A Review</b> <i>Rajesh Kumar</i>	<b>4</b>
<b>L-9</b>	<b>Medicinal Plants: Importance, Uses</b> <i>Sandeep Darbari, Suman Jain</i>	<b>5</b>
<b>L-10</b>	<b>Isolation and Identification of Gram Positive Bacilli from Soil Using an Enrichment Procedure</b> <i>Rajni Bhadkariya</i>	<b>5</b>
<b>L-11</b>	<b>Oral Insulin Delivery- A Needleless Therapy</b> <i>Anisha Agrawal, Sunisha Kulkarni</i>	<b>6</b>
<b>L-12</b>	<b>Developmental Neurotoxicity of deltamethrin: An Overview</b> <i>Nisha Patro</i>	<b>6</b>
<b>L-13</b>	<b>Changes in trend of body weight and brain weight with age:</b>	<b>7</b>

	<b>A possible tool for approximation of life expectancy</b>	
	<i>Nisar Ahmad, Nisha Patro, Kamendra Kumar, Vinay Lomash, I. K. Patro</i>	
<b>L-14</b>	<b>Preparation and evaluation of Mesalamine microspheres for colon delivery</b>	<b>7</b>
	<i>Akanksha Garud , Navneet Garud</i>	
<b>L-p1</b>	<b>Role of Biotechnology in Medicinal Plant</b>	<b>8</b>
	<i>Arjun singh Kaushik, Suman Jain, Mukul Tailang, Sandeep Darbari,</i>	
<b>L-p2</b>	<b>Safety evaluation and therapeutic potential of <i>Tephrosia perpuria</i> Linn. against experimental liver injury</b>	<b>8</b>
	<i>Monika Bhadauria, Younis Ahmad Hajam, Hempushpa Chandra, Shubham Singh, Neha Bhaskar and Hemeshwer Kumar Chandra</i>	
<b>L-p3</b>	<b>Therapeutic effect of curcumin against acrylamide induced toxicity</b>	<b>9</b>
	<i>Piyush Shukla and Satendra Kumar Nirala</i>	
<b>L-p4</b>	<b>Therapeutic effect of naringenin against acrylamide induced toxicity</b>	<b>9</b>
	<i>Rajkumar and Satendra Kumar Nirala</i>	
<b>L-p5</b>	<b>Therapeutic effect of quercetin against acrylamide induced toxicity</b>	<b>10</b>
	<i>Naresh Kumar Sahu and Satendra Kumar Nirala</i>	
<b>L-p6</b>	<b>Study the Seasonal variations and Correlation analysis of various parameters of Tekanpur Lake</b>	<b>10</b>
	<i>Kalyani Mohapatra , K S Kushwah</i>	
<b>L-p7</b>	<b>Oxidative Stress Level and Tyrosinase Activity In Melasma Patients</b>	<b>11</b>
	<i>Shweta Katiyar, Khozema Saify, Sanjeev Kumar Singh, Meenu Rai</i>	
<b>L-p8</b>	<b>Therapeutic evaluation of Green Gold Capsules against experimentally induced liver and kidney damage</b>	<b>11</b>
	<i>Samrat Rakshit, Shamli S. Gupte, Sangeeta Shukla, OmPrakash Agrawal, Sadhana Shrivastava, SatendraKumar Nirala, Monika Bhadauria</i>	
<b>L-p9</b>	<b>Beryllium induced toxic manifestations in rat brain</b>	<b>12</b>
	<i>Komal Singh Suman, Satendra Kumar Nirala, Monika Bhadauria</i>	
<b>L-p10</b>	<b>Performance of <i>Apis mellifera</i> queens raised by Various methods.</b>	<b>12</b>
	<i>Jasvir Singh Dalio</i>	
<b>L-p11</b>	<b>Impact of Biomedical Waste on environment</b>	<b>13</b>
	<i>Javid Manzoor, Manoj Sharma , Suman Jain</i>	
<b>L-p12</b>	<b>Management of vegetable waste using vermicomposting</b>	<b>13</b>
	<i>Rajesh Kumar</i>	
<b>L-p13</b>	<b>Natural Products: Potential Source of Drug Discovery</b>	<b>14</b>
	<i>Abhishek Pandey, Suman Jain, Manoj Sharma, B.S. Jaiswal</i>	
<b>L-p14</b>	<b>Nature And Neurodegenerative Disease</b>	<b>14</b>
	<i>Bhagat Singh Jaiswal, Mukul Tailang, Suman Jain, Manoj Sharma</i>	

## PHYSICAL SCIENCES

P-1	<b>Kinetic Studies on the Adsorption Behaviour of Mesalazine in Wastewater Using Unsaturated Polyester Resin (UPR)</b> <i>Shalini Sikarwar , Rajeev Jain</i>	15
P-2	<b>Growth of Nanocrystalline Cu<sub>2</sub>ZnSnS<sub>4</sub> Thin Films</b> <i>Tarun Chandel, Joginder Singh, P. Rajaram</i>	15
P-3	<b>Langmuir, Freundlich and Tempkin Adsorption Isotherms for the Removal of Antibiotic Tetracycline from Aqueous Solutions Using Low Cost Adsorbent</b> <i>Rajeev Jain, Swati Goyal, Shalini Sikarwar</i>	16
P-4	<b>One pot synthesis of tetra-substituted imidazole derivatives by condensation reaction using Zeolite H-ZSM 22 as a heterogeneous catalyst</b> <i>Sami Ullah Bhat, Rawoof Ahmad Naikoo, Muzzaffar Ahmad Mir, Radha Tomar</i>	16
P-5	<b>Synthesis, Spectroscopic and X-ray Structure of 4-Chlorophenyl benzoate</b> <i>Javeed A. Ganaie, Ray J. Butcher, Sushil K Gupta</i>	17
P-6	<b>Zn-Al Hydrotalcite as A First Heterogeneous Basic Catalyst for the Synthesis of 4h-Pyrano[2,3c] Pyrazoles Through A Four-Component Reaction</b> <i>Jugraj Jataw, R. Gupta, S.K. Srivastava, D.D. Agrawal</i>	17
P-7	<b>In vitro screening and kinetic evaluation of N-thiazolylacetamide monopyridinium oximes as reactivators of organophosphorus nerve agents inhibited human Acetylcholinesterase (hAChE)</b> <i>Aditya Kapil Valiveti, Jyotirajan Acharya, A. K. Halve, M. P. Kaushik</i>	18
P-8	<b>Generalized Slater-Pauling Rule in Mn<sub>2</sub>ZnSi Half-metallic Inverse Heusler Alloy</b> <i>Saleem Yousuf, Idris Hamid Bhat, Tahir Mohiuddin Bhat , Dinesh C. Gupta</i>	18
P-9	<b>Voltammetric Quantification of Tizanidine at Graphene-Zinc Nanorods Nano-Composite Film Sensor</b> <i>Rajeev Jain, Ankita Sinha</i>	19
P-10	<b>Structural, Electronic and Optical Properties of Vacancy Substituted Defect Chalcopyrite Compounds</b> <i>Vikas Nayak , Suman Banger, U P Verma</i>	19
P-11	<b>Morphological studies of RF sputtered ZnO film for pH sensing applications</b> <i>R Mukhiya, R Sharma, K Khanna</i>	20
P-12	<b>Structural And Magnetic Properties Of Co<sub>5</sub>Zn<sub>5</sub>Fe<sub>2</sub>O<sub>4</sub> Nanoparticles</b> <i>Swati Tapdiya, A.K. Shrivastava</i>	20
P-13	<b>Growth and Characterization of CdSe semiconducting thin films</b> <i>Sarika Singh, A.K.Shrivastava</i>	21
P-14	<b>High Pressure Investigation of Ductile and Thermal Behavior of VN: An FP-LAPW study</b> <i>Mamta Chauhan, Idris Hamid Bhat, Dinesh C. Gupta</i>	21
P-15	<b>Temporal deterioration of insecticide incorporated photo-exposed polymer</b> <i>Neha Sharma, Preeti Yadav, A. K. Shrivastava, R. S. Chauhan</i>	22
P-p1	<b>Automation of Laser Welding Rig</b> <i>Shailgiri Jaiswal, Rajeev Jain, Neetu Sikarwar</i>	23
P-p2	<b>UV/VIS Light-Enhanced Photocatalytic Degradation of Antibiotic Tetracycline Aqueous Solutions Using Nanocrystalline TiO<sub>2</sub></b>	23

	Rajeev Jain, Swati Goyal, Shalini Sikarwar	
P-p 3	<b>Nanotechnology in Therapeutics and drug delivery system</b> <i>Shyam Bihari Sharma, Suman Jain, Sunisha Kulkarni , Anisha Agarwal</i>	24
P-p 4	<b>In-vitro Controlled Release Study of Pralidoxime Chloride and obidoxime through polyelectrolyte Layer-by-Layer thin films</b> <i>Uma M Bhalerao, J Acharya , A K Halve, M P Kaushik</i>	24
P-p 5	<b>Green Chemistry For Sustainable Future</b> <i>M. Tiwari, H. Tiwari</i>	25
P-p 6	<b>A study the role of mass media for the improvement of Environmental</b> <i>Rashi Saxena</i>	25
P-p 7	<b>Fabrication of Polyaniline-Graphene oxide Voltammetric Nanocomposite Sensor for Electroanalytical Determination of Calcium Channel Blocker Levamlodipine</b> <i>Rajeev Jain, Ab Lateef Khan</i>	25
P-p 8	<b>Equilibrium, Kinetic and Thermodynamic Studies for the Adsorption of Anti-Inflammatory Drug Using Non Carbon Adsorbent</b> <i>Shalini Sikarwar , Rajeev Jain</i>	26
P-p 9	<b>A study of environmental science and legislation</b> <i>Vandana Rahul</i>	26
P-p 10	<b>Effect of on-site Coulomb Interaction on Electronic Properties of LuN: An ab-initio Study</b> <i>Shakeel Ahmad Khandy, Idris Hamid Bhat, Dinesh C Gupta</i>	27
P-p 11	<b>Solar activity features and their geoeffectiveness during cycle-24</b> <i>B S Rathore, D C Gupta, R M S Bhadoria, K K Parashar, Preeti Kapil</i>	27
P-p 12	<b>Electronic Study of iron doped TiO<sub>2</sub> core shell nanostructure</b> <i>D C Tiwari, Prianka Atri</i>	28
P-p 13	<b>Study of absorption spectra of various natural dyes for sensitized solar cells</b> <i>D.C.Tiwari, Shailendra Dwivedi, Ritu Dubey, Pukhrambum Dipak</i>	28
P-p 14	<b>Growth and Optical Studies of (m-NA) NLO Organic Crystal</b> <i>Shobha Kulshrestha, A.K. Shrivastava</i>	29
P-p 15	<b>Hydrogen Storage in Na Alkali Metal Alloys - A DFT study</b> <i>Suman Banger, Vikas Nayak , U P Verma</i>	29
P-p 16	<b>Application of nano material doping in polymer for toxic gas sensing</b> <i>Govardhan lal, K D Vyas, D C Tiwari</i>	30
P-p 17	<b>Electrocatalytic Detection and Quantification of Nitazoxanide Based on Graphene-Polyaniline Nanocomposite Sensor</b> <i>Rajeev Jain, D.C. Tiwari, Priyanka Karolia</i>	30
P-p 18	<b>Electronic structure and elastic behavior of Co<sub>2</sub>FeGa</b> <i>Sukriti Ghos, Dinesh C. Gupta</i>	30
P-p 19	<b>Temporal changes of Photo exposed Poly (ethylene-terephthalate) Films</b> <i>Preeti Yadav, Neha Sharma, A.K. Shrivastava, R.S.Chauhan</i>	31
P-p 20	<b>Physical and Magnetic Properties of Nanocrystalline ZnFe<sub>2</sub>O<sub>4</sub> and MnFe<sub>2</sub>O<sub>4</sub></b> <i>Uma Shankar Sharma, Ram Naresh Sharma, Rashmi Shah</i>	31

**Following late received abstracts are selected for poster presentation.**

- L-p 15     **Adaptation of Deep Sea Fishes**  
*Nikhat Siddiqui*
- P-p21     **Dielectric study of polyaniline base nanocomposites materials**  
*DC Tiwari, Pukhrambam Dipak and Shailendra Dwivedi*
- P-p22     **Relations of Generalized Hypergeometric Functions and Marichev-Saigo-Maeda Operator**  
*D.K. Jain, \*Renu Jain and \*\*Anjali Thakur*
- P-p23     **Relationship of Meteorological Variables and Water Surface Area – A Study Based on Geospatial Technology**  
*Mohit Singh and S.N.Mohapatra*
- P-p24     **Mapping of Quartz Reefs and Their Significance in Water Conservation – A Case Study Of Bundelkhand Craton Using Remote Sensing And Gis**  
*Mahipal Solanki and S.N.Mohapatra*