

**Tentative Programme of the  
Workshop on the Interface of Science &  
Society**

**Focus: Navati Felicitation for Prof. K.I. Vasu**

Organized by

CSIR - National Physical Laboratory  
& Swadeshi Science Movement of India, Delhi

**December 14, 2018**

Venue: Auditorium, CSIR – National Physical  
Laboratory, New Delhi

# Program Schedule

## December 14, 2018

- Registration: 09.00 – 9.30 A.M.
- Inaugural Function: 09.30 – 11.15 A.M.
- High Tea: 11.15 A.M. – 11.30 A.M.
- Technical Session 1: 11.30 A.M. – 13.30 P.M
- Lunch: 13.30 – 14.15 P.M.
- Poster Session PP1 – PP40
- Technical Session 2 14.15 – 15.30 P.M.
- Tea Break 15.30 – 15.45 P.M.
- Felicitation of Prof. K.I. Vasu – 15.45 P.M to 17.00 hrs
- GB Meeting 17.00 -18.00 hrs

# Program Details (December 14, 2018)

## Ist Technical Session

Chairman:

<b>11.30 A.M. – 11.50 A.M.</b>	<b>IL1</b>	Invited Lecture: <b>Dr. Vijai Mohan Pillai</b> – Contemporary Electrochemistry Research: Technological Disruptions and Social Relevance
<b>11.50 – 12.20 P.M.</b>	<b>IL2</b>	Invited Lecture: <b>Dr. Manohar Lal</b> - Harnessing of Energy & Technology for only Human Welfare
<b>12.20 – 12.40 P.M.</b>	<b>IL3</b>	Invited Lecture : <b>Dr. S.S. Ray</b> - Mitigating Waste Plastics Menace by Converting to Fuel: A Scientific Endeavour for Socio-Environ Cause
<b>12.40 P.M. – 1.00 P.M.</b>	<b>IL4</b>	Invited Lecture : <b>Sanjeev Gupta, Swarna V Kanth and B Kanimozhi</b> Carving a niche in skilling and training for Leather Sector – Skill development and training activities of CSIR-CLRI
<b>1.00 P.M. – 1.20 P.M.</b>	<b>IL5</b>	Climatic challenges to sugarcane production and its mitigating strategies - <b>Devendra Kumar, Nisha Malik, Ashish Kumar Pandey and R. S. Sengar</b>
<b>1.20 P.M. – 1.40 P.M.</b>	<b>IL6</b>	Evaluation of photocatalytic and anticancer activities of Gold - chitosan nanocomposite - <b>Nithya Arjunan and Jothivenkatachalam Kandasamy</b>
<b>13.40 – 14.15</b>	<b>P.M.</b>	<b>LUNCH BREAK</b>

# Technical Session 2 (December 14, 2018)

## Chairman:

- |                        |      |  |
|------------------------|------|--|
| 14.15 – 14.30 P.M.     | IL7  | Climatic challenges to sugarcane production and its mitigating strategies - <b>Devendra Kumar, Nisha Malik, Ashish Kumar Pandey and R. S. Sengar</b> |
| 14.30 – 14.45 P.M.     | IL8  | Study of the Indigenous Fruit Plucking Devices and development of an end effector for fruit harvester - <b>Sarika Mathur and Anshuka Srivastava</b>  |
| 14.45 – 15.00 P.M.     | IL9  | Digitization - the New Mantra for the Survival of Broadcast Industry - <b>R.S.Yadav</b>  |
| 15.00 – 15.15 P.M.     | IL10 | Interface of Jyotirvigyan with Society as Natural Science Pseudo Science and Social Science - <b>Brijendra Sharan Shrivastav</b>                     |
| 15.15 – 15.30 P.M.     | IL11 | A Digital Information Tool for Termite R&D - <b>G K Mahapatro and Murari Kumar</b>   |
| 15.30 – 15.45 P.M.     | IL12 | Impact of MWNTs on Reinforcement efficiency on epoxy/carbon fiber composite - <b>S. Karthikeyan and B. Parasuram</b>                                 |
| 15.45 P.M. – 16.00 hrs | IL13 | A Digital Information Tool for Termite R&D – <b>G K Mahapatro and Murari Kumar</b>   |

**4.00 P.M. – 4.15 P.M. – Tea Break**

# Technical Session 5 (March 5, 2017)

Chairman:

Co-Chairman:

- 12.00 – 12.30 P.M. IL-5**      **Affordable Housing Technologies - CBRI Role in the National Development (Atul Kumar Agarwal)**
- 12.30 – 12.40 P.M. OP 34**      **S&T Interventions in the Traditional Architecture of Rural Areas of the Western Himalayan Region (R.Dharmaraju Ashish Pippal & Swati Kulashri)**
- 12.40 – 12.50 P.M. OP 35**      **Novel Solar Power-Driven Uphill Water Pumping System for Rural Areas (Swati Bishnoi, G. Swati, Paramjeet Singh, Naina Lohia, V. V. Jaiswal and D. Haranath)**
- 12.50 – 13.00 P.M. OP 36**      **Water Management System by Global Service Mobile (GSM) using Nanostructured Magnesium Oxide for Agriculture Purposes (Neeraj Marwaha, Rajni Verma, Dhiraj, B. K. Gupta, Bhikham Singh and A. K. Srivastava)**

**13.00 – 14.00 P.M.**

**Lunch Break**

# Workshop on the Interface of Science & Society (WISS 2018)

## POSTER PAPERS

PP- 01	Role of Hydrogen Energy for Rural Development	T. P. Yadav and O. N. Srivastava
PP- 02	Prevention and Cure of Epilepsy: Action of herbs	Deepti VS and Suman Ray
PP-03	CSIR-CBRI: Building an Enlightened Society	Atul Kumar Agarwal
PP-04	Clinical evaluation of combined effect of Munipayn and Visha mushti vati in Osteoarthritis of the knee joint	Shripathi Acharya
PP-05	Development of the Automatic Speech Recognizer of Garhwali Dialect of Uttarakhand	Manoj Kumar Riyal and Nikhil Kumar Rajput
PP-06	Interrelationship between Indigenous Traditional Agriculture, Nutrition and Health of the Society	Rashmi Sharma, Pragya Tank and *Shema Khan
PP 07	Temple flower management: Liquid Fertilizer for Sustainable Agriculture	Sarika Mathur and Nalin Srivastava

# Poster Papers

<b>PP - 08</b>	<b>Evaluation of photocatalytic and anticancer activities of Gold - chitosan nanocomposite</b>	<b>Nithya Arjunan and Jothivenkatachalam Kandasamy</b>
<b>PP-09</b>	<b>Therapeutic Effect of Nadishodhana Pranayama on stress- related Diseases</b>	<b>Brajeshwar Mishra</b>
<b>PP-10</b>	<b>Magnetically sensitive carboxymethyl cellulose for arsenic removal</b>	<b>Sakshi Singhal, Saurabh Pathak , Pragati Sharma, R.P Pant, K.K.Maurya and G.A. Basheed</b>
<b>PP-11</b>	<b>Point of Use Drinking Water Treatment Device for Households of Rural India by Traditional Potters</b>	<b>R.K. Satankar, Amrita Kaurwar, Sandeep Gupta and Anand K. Plappally</b>
<b>PP-12</b>	<b>Impact of MWNTs on Reinforcement efficiency on epoxy/carbon fiber composite</b>	<b>S. Karthikeyan and B. Parasuram</b>
<b>PP-13</b>	<b>Conversion of Organic Waste into activated Carbon</b>	<b>Shikha Sharma, Riya Yadav, Bhawana, Md. Farukh, Deepshikha Rathore and S. K. Dhawan</b>
<b>PP-14</b>	<b>GM Mustard &amp; India: Commercial release of seed is a socio-political issue-</b>	<b>Abhishek Priyadarshi and Vikas Srivastava</b>
<b>PP-15</b>	<b>Use of Ground Granulated Blast Furnace Slag</b>	<b>Sandeep Panchal, Jatin Singh</b>

# Poster Papers

<b>PP -16</b>	<b>Use of Ground Granulated Blast Furnace Slag (GGBFS) as Replacement of Cement in Concrete</b>	<b>Sandeep Panchal, Jatin Singh and Tarun Yadav</b>
PP-17	<b>Virtual Reality: Reality of New Society</b>	<b>Ambikesh Singh, Atul and Vikas Srivastava</b>
PP-18	<b>Comparative Study of different types of brick</b>	<b>Brajesh Kumar Suman and Ankit Kumar</b>
PP-19	<b>Pressure measurement: from the definition to industry</b>	<b>Shanay Rab* , Rahul Kumar, Afaqul Zafer, Raman Sharma, Lalit Kumar, Abid Haleem* and Sanjay Yadav</b>
PP-20	<b>Historical Monument of Astronomy in Rajasthan : JANTAR-MANTAR</b>	<b>Lata Agarwal</b>
PP-21	<b>Organic Farming and Agricultural Sustainability</b>	<b>P Bhattacharya, P Pramanik, K Kumar and P Dixit</b>
PP-22	<b>Development of Epoxy formulated poly(aniline-co-m-trifluoroaniline)/ZrO<sub>2</sub> composites based coating for Protection of Iron in Saline Environment</b>	<b>Brij Mohan Singh Bisht, Hema Bhandari , Gazala Ruhi and Sundeep K Dhawan</b>



# Poster Papers

<b>PP-23</b>	<b>Performance analysis of GVK models improved portable biomass domestic and community cook stoves</b>	<b>Snehasis Behera</b>
<b>PP-24</b>	<b>Smart Self Healing Coating of Conducting Polymers for Corrosion Protection</b>	<b>Hema Bhandari, Gazala Ruhi, Brij Mohan Singh Bisht &amp; S.K. Dhawan</b>
<b>PP-25</b>	<b>Low-cost water harvesting system for drinking water based on solar-thermoelectrics</b>	<b>Rajiv K. Singh, Mahesh Kumar , Nikita Vashishtha, Ajay Dhar, D.K. Aswal</b>
<b>PP-26</b>	<b>Solid State Cooling: A green cooling concept of Refrigerators for rural and remote places</b>	<b>Mahesh Kumar, Rajiv K. Singh, Nikita Vashishtha, Ajay Dhar, D.K. Aswal</b>
<b>PP-27</b>	<b>Electrochemical Polymerization of EDOSon Flexible Substrate for Electrochromic Applications</b>	<b>Preeti Yadav, Asit Patra</b>
<b>PP-28</b>	<b>Enhanced Conductivity of rGO/PPy Composites by Using Solvent Engineering for Energy Harvesting Applications</b>	<b>Kuldeep kumar garg, Ashank Upadhyay, Amit Kumar, Aniket Rana, Rajiv K. Singh</b>
<b>PP-29</b>	<b>Effect of kitchen waste compost on different plant species for phytoremediation of Pb contaminated army shooting range soil: A pot</b>	<b>Poonam rani and Kavita</b>

# Poster Papers

<b>PP-30</b>	<b>Optimization of different phytohormone concentrations for callus production in <i>Carica papaya</i></b>	<b>Nisha Malik, Alok Singh and R.S. Sengar</b>
<b>PP-31</b>	<b>Morpho-physio-biochemical and molecular level screening of sugarcane genotypes for water deficit stress tolerance</b>	<b>Manoj Kumar Sharma and R. S. Sengar</b>
<b>PP-32</b>	<b>Non-templet nano-wire based transparent conducting electrode in organic solar cell for efficient charge extraction -</b>	<b>Amit Kumar, Aniket Rana, Nikita Vashistha, Kuldeep Kr Garg and Rajiv K Singh</b>
<b>PP-33</b>	<b>Characterization of Drought tolerant clones of Banana (<i>Musa sps.</i>)</b>	<b>Ankita Trivedi and R.S.Sengar</b>
<b>PP-34</b>	<b>Magnetically sensitive carboxymethyl cellulose for arsenic removal</b>	<b>Sakshi Singhal, Saurabh Pathak , Pragati Sharma, R.P Pant, K.K.Maurya and G.A. Basheed</b>
<b>PP-35</b>	<b>Nano-Nutrition using Organic Household Waste for Plants -</b>	<b>Kartik Goel, Neelesh Kapoor, Mohd. Asif Siddiqui, Anil Sirohi, Ravindra Kumar and R. S. Sengar</b>
<b>PP-36</b>	<b>Conducting polymer PEDOT as an Adsorbent for the adsorption of dyes from water</b>	<b>Sonal Gupta and Asit Patra</b>

# Poster Papers

PP-37	—f'k esa ;a=hdj.k dk ;ksxnku -	;ksxs'k dqekj ikaMs <sup>l</sup> f'kYQk flag] jkds'k eksgu 'kqdYkk] txohj nhf{kr ,oa j.kchj flag
PP-38	ीक ौलसफ - गलंडिाफोप्र क्तव्यिभअि नीज ीगोयपउीक नेनाज तमक्ष तलीशनहस कीनकत	० रआ वंए ,कलमि शन,रामकु न्द्रवेदे रगसें० सए
PP-39	<b>COSMOGONY IN VEDAS AND SCIENCE : A COMPARATIVE ANALYSIS</b>	<b>Anita Khurana</b>
PP-40	<b>Science in India</b>	<b>Nem K Jain</b>
PP-41	<b>Socio-economic Changes through Floriculture in India</b>	<b>S. S. Sindhu and Babita Singh</b>
PP-42	<b>Synthesis of nanostructured Cu<sub>2</sub>ZnSnS<sub>4</sub> thin film using sputtering for solar cell applications</b>	<b>K.S. Gour, Dinesh Singh* and V.N. Singh</b>
PP-43	<b>Use of Chemical Sterilants for Culture Media .....</b>	<b>R S Sengar, Manoj K Sharma, Reshu Chaudhary, P K Singh</b>