

		<p>Polymer Science and Engineering Division, CSIR-NCL</p>	
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Symposium On Plastic Waste to Value

- Organized by Venture Center, NCL Innovations & PSE-NCL-

LEARN	<ul style="list-style-type: none"> • Insights into plastic recycling • Converting plastics to fuel : The real issues
ORGANIZED BY	<ul style="list-style-type: none"> • Venture Center • Polymer Science and Engineering Division, CSIR-NCL • NCL Innovations, CSIR-NCL
SUPPORTED BY	<ul style="list-style-type: none"> • Venture Center
FOR WHOM	<ul style="list-style-type: none"> • Innovators and technologists • NGOs and Social Innovators • Industry professionals • Entrepreneurs/ startups with interest in plastic waste management • Researchers/Scientists/Students • Investors • Mentors/consultants
WHEN	<p>Friday, 3 February 2017 Time: 3.30 pm – 6.30 pm</p>
Event Co-ordinator	<p>Soma Chattopadhyay managerincubator@venturecenter.co.in</p>
WHERE	<p>Lecture Theatre, Venture Center, 100 NCL Innovation Park, Dr. Homi Bhabha (Pashan) Road, Pune-411008</p>
CONTACT	<p>Ms. Lipika Biswas Phone: +91-20-25865877 Email: eventsdesk@venturecenter.co.in</p>
COST	<p>Free but prior registration is necessary</p> <p>Registration form available at - http://bit.ly/2jjiD1m More info on: http://www.venturecenter.co.in/workshops/index.php Last date for receipt of applications 1st February 2017</p> <p>Note:</p> <ul style="list-style-type: none"> • Organizers reserve the right to select participants so as to maximize learning and networking opportunities for the group.

Venture Center: <http://www.venturecenter.co.in/>

Contact No: 020 2586 5877; Email: eventsdesk@venturecenter.co.in

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***Please note, the participants will have to arrange for their own travel/local transport and accommodation and dinners.**


- For accommodation (standard and budgeted hotels) please visit:
<http://www.venturecenter.co.in/puneguide/standard.php>
- For accommodation (deluxe and luxury hotels) please visit:
<http://www.venturecenter.co.in/puneguide/deluxe.php>
- For local transport details visit:<http://www.venturecenter.co.in/puneguide/taxi.php>

Workshop Outline			
Time	Duration	Session title	Lead Speaker
15:15- 15:30	15 min	Registration & Tea	Lipika Biswas
15:30- 16:00	30 min	Introduction to Venture Center & welcome note	Dr. Premnath Venugopalan
16.00-16.15	15 min	Sponsor session: Introduction to IPUA	Ms. Nivedita Sangaj
16:15 to 16:45	30 min	Key note address	Dr. Swaminathan Sivaram
		Technical talks and panel discussion	Chair for the sessions and moderator for panel discussion: Dr. Ashish Lele Rapporteur : Mr. Piyush Joshi
16:45 to 17:15	30 min	The journey of PET bottle waste	Dr. Magesh Nandagopal
17:15 to 17:45	30 min	Converting plastic waste to fuel: The real issues	Dr. Harshvardhan Modak
17:45 to 18:15	30 min	Panel Discussion	Panel Members: Dr. Magesh Nandagopal Dr. Harshvardhan Modak Mr. Prashant Girbane Mr. T. K Bandopadhyay
18:15 to 18:30	15 min	Q & A and Closure	

Speakers (in alphabetical order of last names)

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 <p>Mr. T. K. Bandopadhyay</p>	<p>Technical Director of Indian Centre for Plastics in the Environment (ICPE) Mr. T.K. Bandopadhyay has about 40 years' experience in the Plastics Industry, more than two decades being in IPCL, the first "World Scale Integrated Petrochemicals Complex" in India, presently divested to Reliance Industries Ltd. He has been closely associated with the IPI (Indian Plastics Institute) movement in India -and has been felicitated as the "Fellow of Indian Plastics Institute"(FIIP). He is a Guest Faculty of Indian Institute of Packaging (IIP), Mumbai an Institute under the Ministry of Commerce, Government of India, (GoI). He was a Member of the Expert Committee in the Ministry of Environment, Forests & Climate Change (MoEF & CC), GoI, for drafting of the "Plastics Waste (Management and Handling) Rules, 2011" and also "Plastics Waste Management Rules, 2016". He was a Member of different Expert Committees in the Department of Chemicals & Petrochemicals (DCPC), Ministry of Chemicals & Fertilisers, GoI. He is closely associated with Bureau of Indian Standards (BIS) and is Convener of different Committees under Petrochemicals and Chemicals Departments entrusted in formulating National Standards on Plastics Recycling and Solid Waste Management. Presently he is the Technical Director of Indian Centre for Plastics in the Environment (ICPE), an Autonomous National Body set up by MoEF, GoI for dealing with all Environmental Issues relating to Plastics in the Country. He was instrumental in establishing the process of Co-processing of all types of Plastics Waste in Cement Kilns in India jointly with ACC Ltd, under the supervision of Madhya Pradesh Pollution Control Board and Central Pollution Control Board. He has devised a Technology for the construction of bitumen roads using plastics waste in Mumbai, Kalyani & Chandan Nagar near Kolkata. He assisted in setting up of a Zero Waste Municipal Solid Waste Management system in a Colony in New Delhi area which includes a Plastics Waste to Fuel Pyrolysis Plant. Mr. Bandopadhyay is a B. Tech. in Plastics and Rubber Technology from the Department of Applied Chemistry, Calcutta University (1971). Earlier, he did his B.Sc. from the same University.</p>
 <p>Mr. Prashant Girbane</p>	<p>Director, Pune International Centre& Entrepreneur. He received his Bachelor's degree in Chemical Engineering from UDCT (1999) and MBA in Marketing, IT from IIM Ahmedabad. He worked as National Consultant at UNDP and Business Development Manager at Tata Consultancy Services for more than 7 years. He also worked as "Global Relationship Manager, Banking and Financial Services" at Tata Consultancy Services for more than a year. Presently he is the Director of Pune International Center. (More information awaited)</p>
 <p>Mr. Piyush Joshi</p>	<p>Co-Founder at Orthocrafts Innovations & project manager at Venture Center Piyush is currently co-founder at Orthocrafts-a material science focused start-up catering to healthcare market of India. In this entrepreneurial role Piyush looks after fund raising for start-up, new products development, team expansion and marketing. Piyush brings with him a unique experience of commercializing technology from Public funded research via spin-off route. He is also the project manager at venture Center and charged with a responsibility of creating technology based start-ups. In his current role, He actively scouts for the technologies that has potential to create several products and facilitates the process of injecting these technologies into start-ups. The gamut of activities performed by Piyush involves technology assessment, prototype development, market research, product benchmarking, business planning and fund raising. Piyush also mentors pre-incorporation stage projects (probable future start-ups) from material science and medical device domain on business planning, start-up</p>

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	<p>incorporation and fund raising. In his prior tenure at NCL, He has worked on medical device development, patent landscaping for security features.</p>
 <p align="center">Dr. Ashish Lele</p>	<p>Chair-PSE Division-NCL, CSIR Pune, India.</p> <p>He received his Bachelor's degree in Chemical Engineering from the Institute of Chemical Technology in Mumbai (1988) and a Ph.D. in chemical engineering from the University of Delaware (1993).</p> <p>Dr. Lele has been awarded the CSIR Young Scientist award (1996), the Indian National Science Academy Young Scientist award (1998), and the Shanti Swarup Bhatnagar Prize in Engineering Science (2006). He is a Fellow of the Indian National Academy of Engineering and of the Indian Academy of Science.</p> <p>He was a Visiting Professor at the I.S.I.T.V., Toulon, France (1996) and worked as a Research Associate at the University of Cambridge (2001). He is the President of the Indian Society of Rheology and a member of the editorial board of the prestigious journal, Rheologica Acta.</p>
 <p align="center">Dr. Harshvardhan Modak</p>	<p>Consultant, (Industrial & Urban) Waste to Energy, ZLD, National Solid Waste Asson of India</p> <p>Dr. Modak was working as CEO of a distillery division of Western Maharashtra Development Corporation Ltd. He was Group President-Rochem Separations Systems (I) P Ltd. & Concord Enviro, Mumbai, INDIA. He obtained Ph. D. in organic chemistry at National Chemical Laboratory, Pune, India. He also completed Dip. in Business & Industrial Management. Completed courses for CDM & Emissions Reduction, Foreign Exchange Management, Business & Industrial Laws. He participated in evolving Waste to Energy solutions in distillery & other effluents, Zero Effluent Discharge for Alcohol distilleries, Disposal of urban & industrial waste, RO based effluent treatment.</p> <p>He also has experience in General Manager & Manager level in other fields of manufacture of Intermediates for Dyestuffs, Pesticides, Pharmaceuticals & Bulk Drugs, Perfumery Chemicals etc. Work included management of workforce for R & D, Pilot Plants, and Instrumental & Wet Chemical analytical labs. He has secured 2 patents & published 15 numbers of research papers in reputed international publications.</p>
 <p align="center">Dr. Magesh Nandagopal</p>	<p>Scientist and Technology Manager in NCL Innovations – a division of CSIR's National Chemical Laboratory, Pune.</p> <p>He manages the large pool of technologies resulting from this lab, works with partners in taking technologies to the market, and is involved in creating technology based start-ups. He has advised over 100 innovators and entrepreneurs in funding, start-up creation, business planning and other issues. Magesh has a PhD (in Polymer Science) and an MBA (in Finance) - both from the University of Connecticut, USA.</p>

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 <p align="center">Dr. Swminathan Sivaram</p>	<p>INSA Senior Scientist and Honorary Professor at IISER, Pune</p> <p>Dr. S. Sivaram holds a M.Sc. degree in chemistry from the Indian Institute of Technology, Kanpur and a PhD and DSc (h.c) from Purdue University, W. Lafayette, Indiana, USA.</p> <p>He was a Research Associate at the Institute of Polymer Science, University of Akron, Akron, Ohio, USA. He is a scientist of distinction and has held leadership roles in R&D, in both, industry (Indian Petrochemicals Corporation Limited, Vadodara) and academia (CSIR – National Chemical laboratory, Pune). Dr. Sivaram has over forty years of experience in research in polymer synthesis (cationic, anionic, GTP, Ziegler Natta, free radical and step growth polymerizations), high performance polymers, and surface chemistry of polymers, porous polymers, and biodegradable polymers, polymers from renewable resources, organic-inorganic hybrids and structure-property relationship in polymers.</p> <p>He has received wide recognition for his scientific contributions with several awards and honors. He is an elected Fellow of all the learned academies of science and engineering in India as well as the World Academy of Sciences, Trieste, Italy and the Royal Society of Chemistry (UK). The President of India honoured him with “Padma Shri” in 2006 for his outstanding contributions to the field of science, technology and institution building. He has authored over two hundred and twenty peer reviewed scientific publications, authored/edited three books and is cited as an inventor in forty nine US / European patents and fifty two Indian patents. He serves on the Editorial Board of several national and International journals in chemistry and polymer science. He is associated with many companies in India as a member of their Scientific Advisory Boards as well as Corporate Boards</p>
 <p align="center">Dr. Premnath Venugopalan</p>	<p>Director, Venture Center Head, NCL Innovations Head, Intellectual Property Group, NCL Scientist-Polymer Science & Engineering Division at NCL</p> <p>Dr. Premnath has helped found and be the first Director of Venture Center, CSIR-Tech (a technology commercialization company), Orthocrafts Innovations (degradable synthetic polymer based biomed products start-up) and BioIMed Innovations (silk based biomaterials start-up). He holds a B.Tech. from the IIT-B and a Ph.D. from the MIT, USA. He has also been a Chevening Technology Enterprise Fellow with the Centre for Scientific Enterprises, London Business School and Cambridge University, UK. He brings with him considerable experience in technology development and commercialization (two successfully commercialized families of biomedical products), incubation and innovation management, working with start-up companies (in Cambridge-UK and India) and engaging with large corporations on research and consulting projects as project leader. More information at www.premnath.org</p>

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About the Organizers

	<p>Entrepreneurship Development Center (Venture Center) – a CSIR initiative – is a Section 25 company hosted by the National Chemical Laboratory, Pune. Venture Center strives to nucleate and nurture technology and knowledge-based enterprises by leveraging the scientific and engineering competencies of the institutions in the Pune region in India. The Venture Center is a technology business incubator supported by the Department of Science & Technology’s National Science & Technology Entrepreneurship Development Board (DST-NSTEDB). Venture Center’s focuses on technology enterprises offering products and services exploiting scientific expertise in the areas of materials, chemicals and biological sciences & engineering.</p> <p>For more information, visit www.venturecenter.co.in</p>
	<p>National Chemical Laboratory (CSIR-NCL), Pune, established in 1950, is a constituent laboratory of Council of Scientific and Industrial Research (CSIR). CSIR-NCL is a science and knowledge based research, development and consulting organization. It is internationally known for its excellence in scientific research in chemistry and chemical engineering as well as for its outstanding track record of industrial research involving partnerships with industry from concept to commercialization. For more details: http://www.ncl-india.org/</p>
	<p>The National Chemical Laboratory, India is a research, development and consulting organization with focus on chemistry and chemical engineering. It has a successful record of research partnership with industry. NCL Innovations is resource center of NCL that supports, promotes and champions the cause of technology innovations within NCL.</p> <p>For more information about NCL Innovations & IP group NCL, visit http://www.nclinnovations.org/</p>

About the Sponsors

	<p>INDIAN POLYURETHANE ASSOCIATION (IPUA) was founded on 9th May 1992. A non-profit organization to further the interest of POLYURETHANES in INDIA. The association strive to enhance the awareness of POLYURETHANE thereby increase the usage of POLYURETHANE in INDIA. It achieves the task by liasoning among the foam producers in INDIA, producers of raw materials, additives and various Government Bodies. For more information, visit http://www.pu-india.org</p>
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