



Venture Center
100 NCL Innovation Park, Dr Homi
Bhabha Road,
Pashan -411008



“Clean Energy: Emerging Technologies”

4th Event of Venture Center’s Campaign on Energy Technologies



- Organized by Venture Center-

LEARN	<ul style="list-style-type: none">• Get an overview of 4 promising technologies developed and/or implemented<ul style="list-style-type: none">○ PEM Fuel Cell○ Solar trees and other emerging renewable energy technology○ Biodiesel (ENSEL tech) and others based on catalysis innovation○ Industrial biogasification
ORGANIZED BY	<ul style="list-style-type: none">• Venture Center• NCL Innovations, CSIR-NCL
SUPPORTED BY	<ul style="list-style-type: none">• Venture Center• Bioincubator at Venture Center (Bioincubator at Venture Center is supported by BIRAC, Government of India)
FOR WHOM	<ul style="list-style-type: none">• Innovators and technologists• NGOs and Social Innovators• Industry professionals• Entrepreneurs/ startups with interest in clean energy technologies• Researchers/Scientists/Students• Investors• Mentors/consultants
WHEN	Wednesday, 11 October 2017 Time: 2.00 pm – 5.00 pm
Event Co-ordinator	Soma Chattopadhyay managerincubator@venturecenter.co.in
WHERE	Lecture Theatre, Venture Center, 100 NCL Innovation Park, Dr. Homi Bhabha (Pashan) Road, Pune-411008
CONTACT	Ms. Lipika Biswas Phone: +91-20-25865877 Email: eventsdesk@venturecenter.co.in
COST	<p>Free but prior registration is necessary</p> <p>Registration form available at - https://goo.gl/forms/wRWxSzi1LFjC77E2 Last date for receipt of registrations 9th October 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



Facebook Page: <https://www.facebook.com/venturecenterpune?ref=hl>




	<p>Venture Center 100 NCL Innovation Park, Dr Homi Bhabha Road, Pashan -411008</p>	
---	--	---

Workshop Outline			
Time	Duration	Session title	Lead Speaker
14:00-14:15	15 min	Registration & Setting the stage	Lipika Biswas Dr. Premnath Venugopalan
14:15-14:50	35 min	PEM Fuel Cell	Dr. Ashish Lele
14:50-15:25	35 min	Solar Powered Technologies for Realizing Net-Zero Energy Buildings	Dr. Bala Pesala
15:25-15:40	15 min	Tea	
15:40-16:15	35 min	Biodiesel (ENSEL tech) and others based on catalysis innovation	Dr. D. Srinivas
16:15-16:50	35 min	Energy recovery form Municipal Solid Organic Waste	Mr. Sumedh Bapat
16:50-17:00		Closure and Inauguration of 55 kWp solar farm at Venture Center.	
	3 min	Introduction to the Solar farm	Dr. Premnath
	2 min		Mr. Anshuman Lath
	2 min		Mr. Nitin Tappe
		Inauguration of 55 kWp solar farm at Venture Center. Supported by IBPL Implemented by Venture Center and its incubatees: Gram Oorja Solutions Pvt Ltd Pratiti Technologies Pvt Ltd	Prof. A K Nangia Mr. Prasanta K Biswal

Speakers (in alphabetical order of last names)	
 <p>Sumedh Bapat</p>	<p>Technical Director of NobleExchange Environment Solutions Pvt. Ltd.</p> <p>Sumedh has been involved in biogas plant design and technology manufacture in India for more than 12 years. So far he has executed >30 biogas plants projects. He designed and developed an award winning advanced Biogas technology called 3EBT, in partnership with the Agharkar Research Institute, Pune. Sumedh also designed and developed India's first Industrial Fuel Replacement project based on Castor Oil Cake, using LDPE Digesters, replacing 200 litres of diesel in a Roto Moulding oven every day with 320 m³ of biogas.</p> <p>Sumedh has built and designed over 20 biogas plants ranging from 1 to 5 tons per day. He is also been awarded in year 2009 for the innovation of portable biogas plant at the prestigious IIT Mumbai. Sumedh is a mechanical engineer with specialization in designing of the biogas plant, process engineering & fermentation and an MBA.</p>

Venture Center: <http://www.venturecenter.co.in/>
Contact No: 020 2586 5877; Email: eventsdesk@venturecenter.co.in
Facebook Page: <https://www.facebook.com/venturecenterpune?ref=hl>

	<p>Venture Center 100 NCL Innovation Park, Dr Homi Bhabha Road, Pashan -411008</p>	
---	--	---

 <p>Prasanta K Biswal</p>	<p>Chief Executive Officer of the ' International Biotech Park, Pune' .</p> <p>IBPL is a Public Private Partnership between Maharashtra Industrial Development Corporation (MIDC), Government of Maharashtra and TCG Urban Infrastructure Holdings Private Limited to promote Biotech Park in Pune, Maharashtra. Mr. Biswal is also heading other Biotech business of The Chatterjee Group. He has eighteen years of experience and expertise in the areas of Foreign Investment promotion, International Business Development as well as private sector and SME development. With a Masters Degree in Economics from Delhi School of Economics, he possesses a unique blend of conceptual, co-ordination and communication skills gained through research and management expertise in government, private and international organizations in India, Europe and USA. His prior assignments include stints at reputed organizations like the Planning Commission, the premier business organization FICCI and the United Nations Industrial Development Organization (UNIDO). He is a consultant to the Planning Commission, he worked at the Energy Policy Division on the long term planning for the energy sector in India. He started his career as a Research Analyst at the National Institute of Urban Affairs.</p>
 <p>Anshuman Lath</p>	<p>Co-founder and Director Gram Oorja Solutions Pvt. Ltd.</p> <p>Anshuman is primarily responsible for partnerships and team building functions of Gram Oorja. He has a Post-Graduation in Management from IIM, Bengaluru and an engineering degree from IIT, Roorkee. He had more than 10 years of experience with SMEs, tribal education organizations and investment banking before co-founding Gram Oorja.</p>
 <p>Ashish Lele</p>	<p>Chief Scientist and Chair-Polymer Science Engineering Division, CSIR-National Chemical Laboratory</p> <p>Dr. Lele 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. He is also the recipient of "The Infosys Prize for Engineering and Computer Science" in 2012.</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) U.K in the Department of Chemical Engineering. He is the President of the Indian Society of Rheology and a member of the editorial board of the prestigious journal, Rheologica Acta. His research interests include Polymers, rheology, polymer processing, PEM fuel cells, associating polymers, biodegradable polymers.</p>
 <p>Ashwini Kumar Nangia</p>	<p>Director CSIR-NCL , Chairman Venture Center</p> <p>Prof. Ashwini Kumar Nangia, School of Chemistry, University of Hyderabad took over as the eleventh Director of CSIR-National Chemical Laboratory (CSIR-NCL), Pune. He obtained M.Sc. in Chemistry from IIT Kanpur in 1983. He worked under Frederick E Ziegler at Yale University for his Ph.D. on the total synthesis of sesquiterpene natural products via a stereoselective Claisen rearrangement route.</p>

Venture Center: <http://www.venturecenter.co.in/>
Contact No: 020 2586 5877; Email: eventsdesk@venturecenter.co.in
Facebook Page: <https://www.facebook.com/venturecenterpune?ref=hl>



Venture Center
100 NCL Innovation Park, Dr Homi
Bhabha Road,
Pashan -411008



Bala Pesala

Principal Scientist CSIR and Associate Professor at Academy of Scientific and Innovative Research (AcSIR)

Dr. Pesala's research interests range from Solar energy, Terahertz imaging, Integrated photonics to non-invasive diagnostics. Bala has received his B.Tech and M.Tech both in Aerospace engineering from IIT Madras in 2003. He received his PhD in Electrical Engineering from University of California at Berkeley in 2009. His thesis work was focused on slow and fast light using semiconductor optical amplifiers for RF and all-optical communication applications. At Berkeley, he also received minor degrees in Business and Nanotechnology. Subsequently, he did his post-doctoral research in the same group on using novel high-contrast gratings for Integrated optics. He received several awards including CSIR Young Scientist Award (2016), Demitri Angelakos memorial achievement award (UC Berkeley 2009), Rafael Rodriguez Golden Age Fellowship (UC Berkeley) and Silver medal for the highest GPA in Aerospace engineering (IIT Madras 2003) to name a few. He has authored/co-authored more than 50 publications in leading peer reviewed journals and conferences.



Darbha Srinivas

Chief Scientist in the Catalysis Division of CSIR-National Chemical Laboratory (NCL)

Dr. Srinivas obtained his Masters Degree in Chemistry with Physical Chemistry as main subject from Andhra University and Ph.D. in Chemistry from Indian Institute of Technology (IIT), Chennai. Before joining NCL, he worked as a scientist in the Inorganic Chemistry and Homogeneous Catalysis Division of CSIR-Central Salt & Marine Chemicals Research Institute, Bhavnagar. His research interests include design of novel materials for catalytic applications, green chemistry, utilization of renewable feedstocks for chemicals and fuels synthesis, material characterization by spectroscopic techniques, mechanistic investigations and structure-function correlations. His group has developed several sustainable catalytic processes. The catalysts and processes for biodiesel and biolubricants have been licensed to US companies.



Nitin Tappe

Co-Founder Pratiti Technologies Pvt. Ltd.

After successful 5 years stint in corporate role, Nitin is back to what he enjoys most – conceptualizing new software solutions to solve business problems. Nitin is postgraduate from IIT, Mumbai, India and in his 19 years of career, has played key roles in building desktop as well as enterprise solutions right from ideation to launch which are adopted by many Fortune 500 companies. As a Founder member of Pratiti Technologies, he is committed to apply his management learning as well as passion for building new solutions to realize your innovation with certainty.



Premnath Venugopalan



Director, Venture Center | Head, NCL Innovations | Head, Intellectual Property Group, NCL | Scientist-Polymer Science & Engineering Division at NCL

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 BiolMed 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

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

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

Facebook Page: <https://www.facebook.com/venturecenterpune?ref=hl>

	<p>Venture Center 100 NCL Innovation Park, Dr Homi Bhabha Road, Pashan -411008</p>	
---	--	---

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. For more information, visit www.venturecenter.co.in</p>
 	<p>The BioIncubator at Venture Center aims to nucleate and nurture technology and knowledge-based enterprises leveraging knowledge in the areas of biotechnology (biopharma, agrobiotech, industrial biotech, clean technology), biomedical engineering/ devices/ diagnostics, biomass value addition/ renewable fuels/chemicals/materials, bioinformatics, bio/medical services and related disciplines. Created with support from DBT-BIRAC under the Bioincubator Support Scheme. For more information, visit: http://www.bioincubator.venturecenter.co.in/</p>
	<p>Biotechnology Industry Research & Assistance Council is a new industry-academia interface and implements its mandate through a wide range of impact initiatives, be it providing access to risk capital through targeted funding, technology transfer, IP management and handholding schemes that help bring innovation excellence to the biotech firms and make them globally competitive. For more information, visit: www.birac.nic.in</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. For more information about NCL Innovations & IP group NCL, visit http://www.nclinnovations.org/</p>

Venture Center: <http://www.venturecenter.co.in/>
Contact No: 020 2586 5877; Email: eventsdesk@venturecenter.co.in
Facebook Page: <https://www.facebook.com/venturecenterpune?ref=hl>