



National Symposium on Green Chemistry
& Technology for Sustainable Development
January 18-19, 2019

Department of Chemical Engineering
G H Patel College of Engineering & Technology
V. V. Nagar, Anand- 388120



List of Selected Abstracts for Oral Presentation

Sr. No.	Title of Abstract	Authors	Affiliation	E-mail
Alternative Pathways				
NSG 01	Recent Advances in Organic Synthesis and Applications	Bhadreshkumar R. Sudani	GEC, Valsad	brsudani@gmail.com
NSG 09	Alkynylation of Coumarin C(sp ²)-H Bond with Terminal Alkynes Through Supported Copper Nanoparticles	Sunil B. Patel Dilip V. Vasava	School Of Science, Ahmedabad	dilipvasava20@gmail.com
NSG 22	Performance study of TFC nanofiltration membrane in forward osmosis process.	R. Vasava S. Dutta	L.D.College of Engg, Ahmedabad	ravi.rv067@gmail.com smdutta@ldce.ac.in.
NSG 28	Blending plastics wastage as resource inventory in road construction	S. K. Doifode A. G. Matani	GEC, Amravati	shamal_doifode123@gmail.com dragmatani@gmail.com



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NSG 35	Bio-plastics and Bio composites	Manav Patel Rahil Shah Sucheta Das Nidhi Gohel	GCET, Anand	sucheta.das1999@gmail.com
NSG 43	Pervaporation dehydration of binary mixture of Isopropanol (IPA)/Water and ternary mixture of Isopropanol/Water/Acetone using PVA-Zeolite mixed matrix membrane.	Aman Nagori Harsh Popat Het Thanki	GCET, Anand	nagoriaman97@gmail.com
NSG 49	Review on Waste Rigid Polyurethane Incorporated Concrete	Harsh Vadgama Punik Patel Rishidh Patel MitanshuBarot	GCET, Anand	harsh.vadgama96@yahoo.com
NSG 58	Utilization of Whey in Preparation of Buttermilk	Sonali Parekh	SMC College Of Dairy Science, Anand	sonali.parekh312@gmail.com
NSG 73	Activity of Mg-Al hydrotalcites supported copper, iron and silver catalysts for borrowing hydrogen reactions	Naresh Vala PradyumanA. Joshi Manish Kumar Mishra	DDU, Nadiad	manishorgch@gmail.com



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Bioprocesses and Biosystems

NSG 02	Investigative Study on Marine Creatures and Waste foodstuff – Adsorbent Preparation and Applications	Ramil Patel Kushal Kapadia AbhiDharshandiya Smit Ghardesia Jigesh Mehta	P P Savani University, Surat	jigesh.mehta@ppsu.ac.in
NSG 10	Biodegradable and Bio-based plastics for the food packaging	Tejas Shah DilipVasava	School Of Science, Ahmedabad	dilipvasava20@gmail.com
NSG 17	Production and Enhancement of Biosugar and Bioethanol from Coffee Residue and Coffee House Waste	KetulModh, Jainil Bhatt, Aditya Gandhi, Shubham Sharma	GCET, Anand	ketulmodh107@gmail.com
NSG 23	Characterization and Utilization of Bio-char derived from Pyrolysis and Co-pyrolysis of MSS and Waste Biomass as an Adsorbent	Meet Chavda Yash Kothari Harsh Modi AasitMovalia	GCET, Anand	aasitm997@gmail.com
NSG 44	Synthesis and Optimization of Microbial Fuel Cell	Hitav selani Gulamhusainwala Mohammad Pushprajsinh Rathod	GCET, Anand	hdselani@yahoo.in



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NSG 54	Biodegradation kinetics study of hydroquinone compound using by mixed bacterial culture	Varun Kumar Agarwal Kaushik Nath	Marwadi Education Foundation, Rajkot; GCET, Anand	varunkumar.agarwal@marwadi education.edu.in
NSG 55	Purification and characterization of crude biodiesel using chitosan as bio-adsorbent immobilized with saccharomyces cerevisiae yeast	Parin Patel	GCET, Anand	parinpatel1676@gmail.com
NSG 56	Dry Wash Technology for purification of Crude Biodiesel using Biomass Derived Adsorbent	Riya Shah Anand Metre Mathurkumar Bhakhar	GCET, Anand	anandmetre@gcet.ac.in
NSG 60	MBBR: A Promising Technology for Wastewater Recycling -A Review	H. P.Gamdha U. K. Khare	GTU, Ahmedabad; GEC, Dahod	hardik.cv@sltiet.edu.in ukkhare@gmail.com



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Green Energy

NSG 03	Computational and Experimental Investigations on Tailor-made Biofuel Blend Properties	Aamir vohara	GCET, Anand	aamirvohara1998@gmail.com
NSG 16	Study on Catalytic Pyrolysis of Waste Plastics into Fuels towards better National Economy and Swachh Bharat Mission	Priyank Khirsariya Abshisek Sorthiya NandkishorViramgama Harsh Dhandha Milan Dobariya	V.V.P Engineering College, Rajkot	priyank.khirsariya.ch@vvpedu link.ac.in
NSG 27	Blending methanol as renewable fuel in automobiles towards air pollution prevention	Ashok G. Matani	GEC, Amravati	ashokgm333@rediffmail.com dragmatani@gmail.com
NSG 53	Design and Thermal Performance Study of Thermal Recharge Battery by Using Phase Change Materials	Liweo Winston A. Mahesh	ISRRE, Anand	maheshiit10@gmail.com
NSG 63	Direct Solar Energy Absorption Through Nanofluid For Efficiency Enhancement of The Solar Collector	Farha Tinwala	SPRERI, Anand	farha.tinwala@gmail.com



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Green Solvent

NSG 04	Amino acids- EMIM Ionic liquid: Green Organic Synthesis	Roli Mishra Snehkrishna Chaubey	Institute of Advanced Research, Gandhinagar	rolimishra2@gmail.com
NSG 11	Preparation and characterization of biodiesel using ionic liquid as a catalyst: A review	JimitKansara	GCET, Anand	jimitkansara18@gmail.com
NSG 18	Ionic Liquids for Pretreatment of Lignocellulosic Biomass: Technology for Enhanced Biofuel Production	Rima C. Gajjar	V.V.P Engineering College, Rajkot	rimagajjar@gmail.com
NSG 24	Surface Activation of Adsorbents Using Ionic Liquids: Its Characterization and Applications	Aditi Vetal Anand Metre Kaushik Nath	GCET, Anand	chanchal.salve@yahoo.com
NSG 30	Preparation of deep eutectic solvents and their application as draw solute in engineered osmosis.	Y. Sonara S. Dutta	L.D. College of Engg, Ahmedabad	sonarayagnesh@gmail.com
NSG 59	Green extraction of onion (<i>Allium cepa</i> L.) peel total phenolic contents by using Choline chloride-Oxalic acid deep eutectic mixtures	Chandra Bhushan T. Pal Girirajsinh C. Jadeja	SVNIT, Surat	ctp.svnit@gmail.com



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NSG 67	Waste to Wealth: Lignin valorization from agroresidual waste through natural deep eutectic solvents (NADES) approach	Gaurav Dixit Shaishav Sharma Ekta Shah Aesha Patel Adepu K. Kumar	SPRERI, Anand	kiranbio@gmail.com
NSG 82	Liquid-liquid demixing of aqueous solution of ionic liquids in presence of inorganic salts: Phase diagram and application	Sushma Ijardar	Department of Chemistry, Veer Narmad South Gujarat University, Surat, Gujarat	sijardar@vnsgu.ac.in
New materials, catalysts and processes				
NSG 05	Synthesis and Comparative Study of Fluorescent Aromatic Polyesters Using Coumarin in its Backbone	DilipVasava	School Of Science, Ahmedabad; VNSGU, Surat	dilipvasava20@gmail.com
NSG 06	Biodegradable polyether ester urethanes from natural resource: Evaluation of Coating and casting properties	ParthM.Kapatel Priyank H. Kachhia	SPU, Anand	parth91kapatel@gmail.com



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NSG 12	Synthesis and characterization of Zinc Oxide and Iron (III) Oxide nanoparticles	Manan Shah Vishal Solanki Bhavin Poshiya Krishna Peshivadiya	GCET, Anand	smanan33@gmail.com
NSG 26	Approach to Design Thermo Stable Heat Retardant Aromatic Polyamides	Nikita Mishra Dilip Vasava	School Of Science, Ahmedabad;	neeki_mishra@yahoo.com
NSG 38	Synthesis and Characterization of PEG-SO ₃ H Catalyst	Yagneshkumar Gopani, Dhruvil Patel Vatsal Patel Urvehskumar Rana	GCET, Anand	yagneshgopani@gmail.com
NSG 45	Development of Edible Packaging Material	Devarshibharthi Goswami, Bony Kansagra, Vyom Patodiya, Kevin Tarpara	GCET, Anand	goswamidevarshi@gmail.com
NSG 47	Review of natural clay, modification and characterization of Indian clay for further application in catalysis	Vatsal Pandya Prof. Dolly R Gandhi	VGEC, Ahmedabad	avatsalpandya710.vp@gmail.com bdr Gandhi@vgecg.ac.in
NSG 74	Micellar catalyzed hydroxylation of 4,6-dinitro-1,2,3-trichlorobenzene: Role of surfactant's head group charge in micellar catalysis	Ankita G. Ravani Atindra D. Shukla Dinesh O. Shah Manish K. Mishra	DDU, Nadiad; SPU, Anand	manishorgch@gmail.com



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NSG 75	Cycloaddition of CO ₂ to styrene oxide using converted spent FCC catalyst: An environmental friendly approach	Zeel Kothari, Yogesh Niwate, Dinesh P. Patel, Chintansinh Chudasama, Kalpana G. and R. V. Jasra	Reliance Technology Group, Reliance Industries Limited, Vadodara 391346, INDIA.	yogesh.niwate@ril.com
Pollution prevention				
NSG 07	Laundry Detergents and Their Environmental Impact	Himani Sharma Rashmi Tyagi	JUET, Guna (M.P.)	sharmahimanidpbs@gmail.com
NSG 08	Feasibility study on removal of Cr ⁺⁶ Contaminants from effluents using Electrocoagulation- A review	Yash T. Amin Sunil R. Patel Beena K. Sheth	VGEC, Ahmedabad	yash13a@gmail.com
NSG 14	Metal Specific Patterns of Tolerance, Accumulation, and Transportation of Heavy Metals in Various Hyper accumulating Plant Species	K. K. Tiwari	SICART, Anand	drkktiware14@rediffmail.com
NSG 15	Treatment of DL-Mandelic acid effluent in industrial wastewater	Manan Patel Shailesh Patel	GCET, Anand	sdp3101@gmail.com



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NSG 21	Utilizing green bio fuel in aviation industries towards pollution prevention and sustainable development	A. G. Matani S. K. Doifode	GEC, Amravati	shamal_doifode123@gmail.com dragmatani@gmail.com
NSG 40	Phytoextraction as a promising technique for soil remediation	Patel Khushboo VisavadiaSetu Patel Aditi Virani Arpan	GCET, Anand	khushboopatel1498@gmail.com
NSG 48	Utilization of tea waste and cellulosic waste (solid waste) as a powerful and green adsorbent for the adsorptive removal of the reactive dyes and heavy metals from the industrial effluents	Abhishek Thakkar Harsh Patel PritDadhania	GCET, Anand	abhishekthakkar22@gmail.com
NSG 51	Micellar surfactant system: for the removal of hazardous aromatic species	Tejas P. Joshi	Maharaja KrishnakumarsinhjiBha vnagar University, Bhavnagar	tejas2709@gmail.com
NSG 62	Comprehensive Study on Bio-fouling	M. Bhatiya A. Vaghela	L.D. College of Engg, Ahmedabad	bhatiyam719@gmail.com truptikvaghela@gmail.com



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	Prevention Using Quorum Quenching in Membrane Bioreactor for Municipal Wastewater: A review			
NSG 65	Green Engineering through Bioremediation: A New Emerging Narrative Clean Technology for Remediation of Heavy Metals Contaminants	Khushboo Pandey	Sophisticated instrumentation center for applied research and testing, Anand	pandeykhushboo94@yahoo.com
NSG 76	Pyrolysis and Co-pyrolysis of Municipal Sewage Sludge with various Biomass for Bio oil production: A Review	Prince Chauhan, Dharmesh Kapatel	Department of Chemical Engineering, G H Patel College of Engineering & Technology	dharmeshkapatel@gcet.ac.in
NSG 81	Phytoextraction of Cr, As, Cd, Pb and Ni from Metals Contaminated Soils by Two Portulaca Plant Species	Manoj K. Bidhar*, K. K. Tiwari, Khushboo Pandey	Sophisticated Instrumentation Center for Applied Research & Testing (SICART), Sardar Patel Centre for Science & Technology, Vallabh Vidyanagar-388 120, Anand (Gujarat), India	manoj.bidhar@gmail.com



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Process intensification

NSG 13	Methylation and Condensation of Melamine Formaldehyde Resin: Mathematical Modeling	Kinjal R Rokad	V.V.P Engineering College, Rajkot	kinjalrokad.gcet@gmail.com
NSG 20	Multiscale Integrated Approach in Multiphase Reaction Engineering and Process Intensification: Sustainable Energy and Process Design	Bansi Kansagra Dharmendra D. Mandaliya	Sarvajanik College of Engg and Tech., Surat; VGEC, Ahmedabad	bansi2410@yahoo.com ddmandaliya@gmail.com
NSG 33	Industrial waste water treatment using hydrodynamic cavitation: Vortex diode as a cavitating device	Maulik Patel Nehir Patel Rutvik Patel Dhruvi Sadiya	GCET, Anand	maulikpt128@gmail.com