

## PARALLEL SESSION – II

PM: Process Modeling And Simulation

Date : 29<sup>th</sup> Dec 2014

9:00 AM – 11:00 AM

Venue: L-1

1	PM/0001	<b>Ravi Pawar and Satish R. Inamdar</b> Utility system design and optimization for a chemical process plant
2	PM/0003	<b>Ranvir Singh, Manish Mishra, P. Mondal, and B. Mohanty</b> A simulation study of reforming of waste solvent recovered in pharmaceutical process
3	PM/0004	<b>Dr. Sanjiv Bachal, Mr. Shailesh Sakarkar, Mr. Alok Pandit</b> Increasing Refinery Profitability Through Pre-Heat Train Optimization
4	PM/0006	<b>Ranvir Singh, P.Mondal and B.Mohanty</b> Selection of design parameters by Taguchi method for separation of Ketoprofen enantiomers using simulating moving bed (SMB) chromatography
5	PM/0007	<b>Vishnu Anand, Ambuj K Singh, R. Rajeev, C. V. Joyakin, P. Velevedan, N. K. Pandey, U. Kamachi Mudali, R. Natarajan</b> Modelling and simulation of Diluent Recovery unit in PUREX solvent regeneration system
6	PM/0008	<b>R. S. Shekhawat, Ambuj Kumar Singh, S. Ganesh, N. K. Pandey, U. Kamachi Mudali, R. Natarajan</b> Studies on the extraction behavior of Gadolinium with TBP
7	PM/0009	<b>Vinod Kumar Yadav, Gupta Ravikant, Vineet Kumar</b> Effect of Temperature and Pressure on the Conversion of Coal-Char Gasification with CO <sub>2</sub>
8	PM/0011	<b>Abhinav Mahajan, Tanmay Taraphdar, Animesh Nandi, M.K.E Prasad</b> Oxygen Enrichment in Sulphur Recovery Unit
9	PM/0012	<b>Ghoshna Jyoti, Amit Keshav, J. Anandkumar</b> Modeling and simulation of a pervaporation-esterification coupled reactor
10	PM/0013	<b>Aruna Singh, Bhavana Rao, Upnyaas Juneja and Mahesh Ganesapillai</b> Emperical Modelling Of Thin Layer Drying Kinetics Of Rhizomes
11	PM/0014	<b>P. Suresh, Vikranth Kumar Surasani</b> Population Balance Modeling of Continuous Fluid Bed Wet Granulation of API
12	PM/0016	<b>Mayur Chaudhari, Makarand Upkare</b> Desulfurization Of Natural Gas Using Aspen Tech
13	PM/0017	<b>N. K. Singh, S. Gautam, A. Gautam</b> Numerical Simulation Of The Attachment Of An Infinitely Extended Particle To A Bubble
14	PM/0018	<b>Vivek Singh, L. Satish Kumar, Tanmay Vasal, N. Theivarajan, K. Madhusoodanan, K. Velusamy, P. Chellapandi</b> Modelling And Performance Analysis Of Decay Heat Removal In A Fast Breeder Reactor By Steamwater System

## PARALLEL SESSION – II

NT: Nano Technology

Date : 29<sup>th</sup> Dec 2014

9:00 AM – 11:00 AM

Venue: L-2

1	NT/0029	<b>Monojit Chakraborty, Richa Bhusan, Sunando Dasgupta</b> Physics Of Dynamic Spreading Using Molecular Dynamics Simulation
2	NT/0030	<b>Udita Uday Ghosh, Aditya Bikramchandari, Monojit Chakraborty, Sunandodasgupta</b> Effect Of Surface Wettability On Crack Formation
3	NT/0031	<b>Sonal Mazumder</b> Nanoparticulate Formulation For Delivery Of Hydrophobic And Hydrophilic Drugs
4	NT/0033	<b>Sriniwas Panda, Nirmal C, Samir Kumar Das , Mathew Daniel &amp; S S Manna</b> Development Of Graphite Reinforced Nitrile Rubber Composite As Insulating Material For Solid Propellant Rocket Motor
5	NT/0034	<b>Debasis Nanda, Rahul Purbia, Santanu Paria</b> Synthesis Of Gold, Iron And Silver Nanoparticles Using Tea Extract As Reducing Agent
6	NT/0036	<b>Jayaram.P1, Mueen Baig, Dr. A. Sivalingam, Dr. M. Thirumarimurugan</b> Synthesis And Characterization Of Silver Nanoparticles In Different Medium
7	NT/0037	<b>Naveen Agrawal Aniruddha B Pandit Ganesh Maddikeri</b> Ultrasonic Cavitation Assisted Synthesis Of Citronella Oil In Water Nanoemulsion & Optimization Of Various Parameters
8	NT/0038	<b>K Jithin Raj, N Venkatesh, N Vedaraman, R Arun Kumar</b> Preparation Of Nickel Oxide Nanoparticle From Sophorolipids
9	NT/0042	<b>Rajkamal Kushwaha, Sangeeta Garg1, Deepak Kohli</b> Removal Of Cadmium And Lead Metal Ions From Synthetic Wastewater Using Iron Oxide Nanoparticles (Nano-Fe <sub>3</sub> O <sub>4</sub> )
10	NT/0043	<b>Navjot Kaur, Parminder Singh, Puja Sharma</b> A Modified Dittus Boelter Equation For Prediction Of Heat Transfer Coefficients In Nanofluids
11	NT/0045	<b>Parminder Singh, Ritu Gupta, R.K.Wanchoo</b> Comparative Study On Convective Heat Transfer Of Water Based Nanofluids Under Turbulent Conditions
12	NT/0046	<b>Puja Sharma, R.K.Wanchoo, Ritu Gupta</b> Hydrodynamics Of Metal Oxide Nanofluids:A Comparative Study
13	NT/0047	<b>Vijay D. Yadav, Ratnesh D. Jain , Prajakta Dandekar Jain</b> Silver Nanoparticles! A Blind Science?...
14	NT/0051	<b>Madhuri Nori, Dr. Suresh Gupta, Sae Vyahare</b> Development Of Nano-Particles Using Physical/Chemical Methods For The Recovery Of Heavy Metals From Industrial Waste Water

## PARALLEL SESSION – II

NP: New process technologies & AT: Adsorption technology

Date : 29<sup>th</sup> Dec 2014

9:00 AM – 11:00 AM

Venue: L-3

1	NP/0019	<b>P. Premsagar, S. Balyan, P. Tiwari, R. K. Upadhyay</b> Experimental And Numerical Investigation Of Underground Coal Gasification (Ucg)
2	NP/0022	<b>Deepak Sharma, Rajeev Sharma,</b> A Step To Bio Energy: Review Of Modelling And Simulation Of Thermal Degradation Of Deoiled Cake
3	NP/0023	<b>Pratik G Bhagat, Abhishek Patel</b> Multiphase Pumps – Solution To Zero Flaring
4	NP/0025	<b>Yash Bhatt , Varun Ganatra, Alpana Mahapatra</b> Sulphur Removal By Thiopaq Process.
5	NP/0026	<b>G. Sai Kishore, K.V.Ramesh, M.S.N.Murty, G. Tirumala Rao</b> Autonomous Multiple Gas Sensor For Process Safety And Hazard Protection Using Fuzzy Modelling
6	NP/0028	<b>Bhoomika Sheth, Sahil Inamdar, Akshay Tharval</b> Desalination By Ion Concentration Polarization
7	NP/0031	<b>Ch. V. Naga Sowjanya And R. Padma Sree</b> Tuning Of Pid Controllersfor Stable First Order Plus Time Delay Systems Using Multiple Dominant Poleplacement Method.
8	NP/0032	<b>Sarwan S. Sandhu, Joseph P. Fellner</b> Characterization Of Iron Phthalocyanine As The Cathode Active Material For High Capacity Lithium-Ion Batteries
9	AT/0001	<b>Poonam Mondal, Suja George</b> Defluoridation Of Drinking Water Using Calcia-Magnesia Adsorbent (Camad)
10	AT/0004	<b>Nandini Raghuvanshi, Rutuja Atrey, Pranav D. Pathak, Sachin A. Mandavgane</b> Removal Of Salicylic Acid From Dilute Aqueous Solution
11	AT/0005	<b>R. Dutta , S.Basu, A. Chakroborty, N.K.Brahma</b> To Study The Activity Of Fly Ash For Removal Of Arsenic And Bacteria From Water
12	AT/0006	<b>S. Bhar, S.Basu, A. Chakroborty, N.K.Brahma</b> To Study The Activity Of Green Sand For Removal Of Arsenic And Bacteria From Water
13	AT/0007	<b>Ganesh Moorthy. I, Baskar. R, Nagarajan. T, Shyam Kumar. R</b> Purification Of Alkaline Protease By Foam Factionation: Statistical Modelling And Optimization
14	AT/0008	<b>Prakash Kumar Singh, Suja George</b> Fluoride Removal From Drinking Water Using Calcium And Magnesium Amended Activated Alumina

## PARALLEL SESSION – II

MS: Membrane Science Technology

Date : 29<sup>th</sup> Dec 2014

9:00 AM – 11:00 AM

Venue: L-4

1	MS/0002	<b>Naveed Jeelani, Fasil Qayoom Mir, Peer Asif Mushtaq, Syeed Ahmed Sofie, Azher Rashid, Junaid Ashraf Shah</b> Synthesis & Characterisation Of Clay Based Ultrafiltration Membraneaqueous Oxalate Solutions
2	MS/0004	<b>Sanjib Barma, Bishnupada Mandal</b> Gas Permeation Properties Of Mcm-48 Membrane: Synthesis And Characterization
3	MS/0005	<b>Mridusmita Barooah, Arijit Mondal, Babul Prasad and Bishnupada Mandal</b> Co <sub>2</sub> Separation By Facilitated Transport Polymer Membrane Containing Monoethanolamine Carrier
4	MS/0006	<b>Priyankari Bhattacharya, Sourja Ghosh, Swachchha Majumdar</b> An eco friendly approach of wastewater management involving ceramic membrane based microfiltration and reverse osmosis for total recycling of tannery wastewater
5	MS/0007	<b>Vandana Prabhu, Anand Patwardhan</b> Synthesis of ceramic membrane/ supports from kaolin and clay mixtures
6	MS/0008	<b>Swapnil R. Chaudhari, Anand V. Patwardhan</b> Transport Of Pb <sup>++</sup> Metal Ions Through Hollow Fiber Supported Liquid Membrane
7	MS/0010	<b>Manali Ray, Sourja Ghosh, Sandeep Sarkar</b> Carbon Molecular Sieve Membrane Over Clay-Alumina Tubular Support For Enrichment Of Hydrogen From Refinery Off Gas
8	MS/0011	<b>Surajit Dey, Ganesh. C. Sahoo</b> Effect of zeta-potential, sedimentation and viscosity on zirconia suspension and ultrafiltration membrane preparation over low-cost clay-alumina support tubes
9	MS/0012	<b>Rakhi Das, Sandeep Sarkar, Sourja Ghosh, S Majumer</b> Preparation Of Hydrophobic Ceramic Capillary Membrane For Membrane Distillation Applications
10	MS/0014	<b>Kasturi Sarang, Rahul Zambare, Parag Nemade</b> Synthesis And Development Of Tunable Poly(Vinylidene Fluoride) (Pvdf) Membranes
11	MS/0017	<b>Chiranjit Bhattacharjee, Dr. Suman Dutta, Dr. V.K. Saxena</b> Static Turbulence Promoters In Membrane Filtration: A Review
12	MS/0018	<b>Rajesh V. Nagotkar, Shrikant J. Wagh</b> A Review On Polymeric Membranes (Pm) For Natural Gas Separation (Ngs)
13	MS/0020	<b>China M. Kaniganti, Charan S. Bugudala, Ramagopal Uppaluri</b> Optimality of Reducing Agent Concentration on the Sonication Assisted Electroless Fabrication of Silver Ceramic Composite Membranes
14	MS/0021	<b>Pavani Vadthya, Bipin Chakravarthy, S. Sridhar</b> Defluoridation And Removal Of Arsenic From Ground Water By Nanofiltration Technique

## PARALLEL SESSION – II

CR: Chemical Reaction Engineering

Date : 29<sup>th</sup> Dec 2014

9:00 AM – 11:00 AM

Venue: L-5

1	CR/0002	<b>Vishwajit Shirkande, Satish R. Inamdar and Rajnish Kumar</b> Experimental optimization of Catalytic hydrogenation reaction to prepare Aniline
2	CR/0005	<b>D. V. Gayatri, B Sreenivasulu, I Sreedhar</b> Multiphase Kinetics Of Zeolite Catalyzed Toluene Nitration
3	CR/0007	<b>Archana Rao P, Bhanusri, Chaitanya</b> Growth Kinetics Of Chlorella Vulgaris And Botryococcus Braunii Based On Carbon Dioxide Uptake As Parameter
4	CR/0008	<b>Avinash Anand, Shourjo Bhattacharya, Arjun chakarbaty, Anup Ku Bairagi</b> Study And Analysis Of Catalyst Deactivation In Pre-Reformer Reactor Using Z-90 Curves
5	CR/0009	<b>Mostofa Shamim, Kausik Dana</b> Thermal Decomposition Kinetics Of Layered Double Hydroxides
6	CR/0010	<b>B N Naidu<sup>1</sup>, KDPLN Kumar, Sachin Kumar, VVDN Prasad</b> Thermodynamic And Kinetic Evaluations Of Novel Ni Based Catalysts For Co <sub>2</sub> Reforming Of Methane
7	CR/0011	<b>Deepak Yadav, R. Prasad and Pooja Thakur</b> NO <sub>x</sub> emissions control over potash promoted and alumina supported hydrotalcite catalyst
8	CR/0014	<b>P.V.S.N.Prudhvi Raju, P.Babaji , S.Sairam ,D.Mandal</b> Effect Of Free Acidity In Uranyl Nitrate Pure Solution (Unps) On Quality Of Ammonium Di Uranate (Adu) Powder
9	CR/0015	<b>Somak Jyoti Sahu</b> Sulfonation Of Linear Alkyl Benzene In Semi-Batch Reactor And Its Temperature Control
10	CR/0016	<b>Km. Renu, Mohd. Danish</b> Effectiveness Factor For A Porous Catalyst Slab
11	CR/0017	<b>Srinivas Krishnaswamy, Amol Deshpande, Krishnaswamy Ponnani</b> Micro-Pulsed Differential Reactors: A Viable Alternative For Estimating Kinetics Of Gas-Solid Reactions
12	CR/0018	<b>Sabhat Jabeen and Mohd. Danish</b> Simulation Of Axial Dispersion Model Of An Adsorption Column
13	CR/0020	<b>Gaurav Rattan, Meenakshi Sheoran</b> Reaction Kinetics Of Supported Co-Ce Catalyst For Co Oxidation
14	CR/0023	<b>Nileema Bokhale, Pratiksha Gadekar, Ashish V Mohod, Kanchana N Bavankar, Sanjay Danao</b> Synthesis Of Medium Chain Triglycerides (Mcts)

## PARALLEL SESSION – II

ES: Environmental Science And Engineering

Date : 29<sup>th</sup> Dec 2014

9:00 AM – 11:00 AM

Venue: L-6

1	ES/0028	<b>Bharath Gandu, K.Kranthi, A. Gangagni Rao, Y.V. Swamy</b> Studies On Gas Phase Bio-Filter For The Removal Of Nh <sub>3</sub> and H <sub>2</sub> s
2	ES/0029	<b>Kranti Kuruti, Bharath Gandu, Dr.A.Gangagani Rao, Dr.Y.V. Swamy</b> Development Of Sustainable Biotechnological Method For Removal Of Ammoniacal Nitrogen From Industrial Waste Waters
3	ES/0030	<b>Asma Iqbal, Syed Akhlaq Ahmad</b> Bioremediation Of Dal Lake Pollution
4	ES/0032	<b>M. Srinivas, G. Parameswaram, B. Hari Babu, P. S. Sai Prasad, J. Kalpana, And N. Lingaiah</b> Tin-Tungsten Mixed Oxide Catalaysts For The Conversion Of Glycerol To Value Added Chemicals
5	ES/0033	<b>J. Mahammad Rafi, K. Upendar, A. Rajashekar, B.V.S.K. Rao, P.S. Sai Prasad, N. Lingaiah</b> Biochar From Karanja Seed Shell As A Low Temperature Adsorbent For Co <sub>2</sub> Capture
6	ES/0034	<b>D.Tarun Kumar, P.Vasu, Ch.Sridhar, M.S.N.Murty</b> Recovery Of Chitin And Chitosan From Shrimp Shells
7	ES/0035	<b>Parmila Devi And Anil K. Saroha</b> Bioavailability And Eco-Toxicity Of Heavy Metals In Biochar Made From Paper Mill Sludge
8	ES/0036	<b>Ayushi Verma, Shashi Kumar</b> Biosorption Isotherm Study For Pb <sup>+2</sup> Ion Recovery From Aqueous Solution By Sargassum Sp.
9	ES/0037	<b>P Sivakumar, A Sakthi Saravanan, Muralidharan N G</b> Degradation Of Dyes Using Composite Zn <sub>0</sub> -Zn <sub>s</sub> Nanocatalyst Under Ambient Temperature
10	ES/0038	<b>Mehta Nidhi, Saxena Priya</b> Developments In Mixed Metal Oxide Electrodes In Industrial Effluent Management
11	ES/0039	<b>Sushma And Anil K. Saroha</b> Catalytic Wet Air Oxidation Of Industrial Organic Effluent Using Alumina Based Platinum Catalyst
12	ES/0040	<b>Neetu Singh , Bhumica Agarwal , Chandrajit Balomajumder</b> Modeling Studies On Simultaneous Adsorption Of Phenol And Cyanide On To Saw Dust Activated Carbon From Simulated Aqueous Solution
13	ES/0041	<b>Avanish Kumar, Susanta K. Jana</b> A Critical Review Of The Reaction Kinetics, Reactor Modeling, Diverse Absorbents And Contactors For Flue Gas Desulfurization
14	ES/0043	<b>Manne Ashish, Srikanta Dinda, Sharat Manda, R.B.Adusumalli</b> Analysis Of Co And Particulate Matter During Incineration Of Municipal Solid Waste

## PARALLEL SESSION – II

EE: Energy Engineering

Date : 29<sup>th</sup> Dec 2014

9:00 AM – 11:00 AM

Venue: L-7

1	EE/0002	<b>S. G. Phani Kumar Reddy, A. Sankar Vinayaka, S. K. Behera</b> Development Of A Statistical Model For Optimized Biodiesel Production By Trans-Esterification Of A Mixture Of Two Non-Edible Oils
2	EE/0004	<b>Bibhanayak, Snehadaliya, Inkollu Sreedhar</b> An Experimental Study On Green Fuel Generation
3	EE/0007	<b>Gautam Ganeshan, K. Mohanty</b> Degradation Kinetic Study Of Pyrolysis And Co-Pyrolysis Of Mango Seed With Polyethylene Terephthalate (Pet) Using Coats-Redfern Method
4	EE/0009	<b>Murali M Seepana , Sreedevi Samudrala</b> Modelling And Simulation Of Vanadium Redox Flow Battery
5	EE/0011	<b>T. Singh, A. Awasthi, P.Tripathi, S. Gautam, A. Gautam</b> Response Surface Methodology For Indian Coal Grinding
6	EE/0012	<b>Rajesh Tripathy , Kaushik Nath, Meet S. Vadodaria</b> Hydrogen-Rich Gas Production By Thermo Chemical Conversion Of Biomass In A Catalytic Fluidized Bed Gasifier, Experimentation And Comparative Study Using Aspen Plus Simulator
7	EE/0013	<b>D. Mandal , K. Chougule, M.C Jadeja</b> An Experimental Study On Packed-Fluidization For Solar Energy Receiver
8	EE/0014	<b>Sarbani Ghosh, Venkat Padmanabhan</b> Molecular Dynamics Studies Of Hydrogen Storage In Carbon Nanotube
9	EE/0016	<b>Priyanka Dhar, Ankit Namdev, Jeeshan Ahmed</b> Liquid Fuels From Plastic Wastes
10	EE/0019	<b>Gangadhararao.P, Rajendra Prasad, Shabana Shaik</b> Process Simulation And Optimization Of Cng From Biogas Using Aspen Plus
11	EE/0020	<b>A. K. Dubeya, V.K. Saxena, P. Sarkarb, A. Samantaa</b> Chemical Looping Combustion Of Indian Coal With Copper Oxide As Oxygen Carrier
12	EE/0023	<b>Rupali Jha, Jitendra Kumar, Shikha Gangil, Chanchal Mewar, Lekhraj Malviya, Bharat Modhera</b> A Review On Research, Development And Future Approach Of Organic Solar Cell
13	EE/0024	<b>S. Deepalakshmi, A. Sivalingam, P. Sivakumar</b> Production Of Heterogeneous Catalyst Form Waste
14	EE/0025	<b>Gautam.R, Abijith K.M, Ashik Augustine Siby, Sivakumar. P</b> Bio-Hydrogen Production From Pear Pomace By Enzyme Hydrolysis

## PARALLEL SESSION – II

### Chemical Industries

(CM : Cement , DY : Dyes, FZ: Fertilizers, LT: Leather, PA: Paints, PC: Pesticide, PT: Pharmaceutical Technology , PU : Paper and Pulp, TX: Textile )

Date : 29<sup>th</sup> Dec 2014

9:00 AM – 11:00 AM

Venue: L-8

1	CM/0003	<b>Manvitha.T, Swapna.P, Ramadevi.G, Swapna.S, Vighneswararao.K, Pitchumani.B</b> A Relation To Predict The Particle Size Distribution Of Cement Sample From Angle Of Repose
2	DY/0006	<b>Venkatakrishnan., Sandhya.K.V , Dr.N.Vedaraman , K.C.Velappan</b> Natural Dye Extraction From Jabra Seeds And Its Dyeing On Different Substrates
3	DY/0001	<b>Yogesh K. Choughule, Anand V. Patwardhan</b> Stereoselective Benzoylation Of Alpha-Amino Esters Using Chiral Benzimidazolide As A Benzoylating Agent
4	DY/0007	<b>Abhi Mukherjee, Kishor G Thorat, N Sekar, S.Panda</b> Spectral Responses Of Immobilized Dyes On Silicon Surfaces: A Combined Theoretical And Experimental Study
5	FZ/0001	<b>Sudip Das, Manoj M Patil, Pranav B Baxi</b> Two Phase Flow Characterization In Amine Based Co2 Recovery Process
6	LT/0001	<b>Vijay Sodhi, Ajay Bansal, Mithilesh Kumar Jha</b> Investigation Of A Bench Scale Effluent Treatment For Tanneries
7	PA/0001	<b>Saurabh Singh ,Hemanshisarangal ,Rahul Panwar</b> Insecticide Paint(Mosquito Repellant Paint)
8	PC/0001	<b>Kanchan Modi, Mohnish Kumar, Swati Kumari, Praful Dadhe, Sonali Hiwarkar, Sachin Mandavgane</b> Stabilization Of Azadirachtin Present In Neem Fruit Dust Using Different Carriers And Stabilizers Under Uv Light Exposure
9	PT/0005	<b>Anamika Chatterjee , Vikram Karde, Sanjay Saroj, Chinmay Ghoroi</b> Unseeded Batch Cooling Crystallization Of L - Asparagine Monohydrate Binary Blends
10	PT/0006	<b>Maheswata Lenka, Debasis Sarkar</b> Unseeded Batch Cooling Crystallization Of L - Asparagine Monohydrate
11	PT/0007	<b>Chitta Ranjan Barik, Vaibhav Vasant Goud, Lingaraj Sahoo</b> Qualitative Phytochemical Investigation And Characterization Of Sea Buckthorn (Hippophae Salicifolia D. Don) Plant Leaves From North Eastern India
12	PT/0101	<b>Shekar Viswanathan, Henry Truong And Van Phan</b> Implementation Of The Ultra Performance Liquid Chromatography (Uplc) In The Analytical Chemistry Laboratory (Acl) At A Medical Device Company
13	PU/0002	<b>R. B. Adusumalli, Bipin Chakravarthy, K. Shantanu, S.Dinda</b> Analysis Of Wood Pulp After Cooking And Bleaching
14	TX/0002	<b>Vijay Sodhi, Neelam Chopra</b> Advanced Treatment Technologies For Textile Wastewater



