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| **2nd International Conference on New Frontiers in Chemical, Energy and Environmental Engineering** | | | |
| **(INCEEE-2019), 15-16 February, 2019.** | | | |
| **National Institute of Technology, Warangal - 506 004, Telangana, India** | | | |
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|  | **Session-wise Details** | | |
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| **Biochemical Engg. & Biotechnology - 1 Day1: 15-02-2019 Time: 13:30-15:00 Venue: Homi Bhabha Hall** | | | |
| **S.No.** | **Paper ID** | **Title of the Paper** | **Authors** |
| 1 | 18121405 | Impact of Cu(II) Ion on Performance and Morphology of Aerobic Biomass in Sequencing Batch Reactor | Rajneesh Kumar\*, Gurvinder Kaur Saini, Mohammad Jawed |
| 2 | 18111401 | Enhancing Biohydrogen Production from Sugar Industry Effluent by Metal Oxide Coatings on Nickel Foam Cathode in Microbial Electrolysis Cell | Tamilmani Jayabalan, Manickam Matheswaran, Samsudeen Naina Mohamm\* |
| 3 | 18112402 | Production of Bio-mix Biodiesel Fuel and its impact on Diesel Engine Applications | Vikas Sharma\*, Ganesh Duraisamy, M. Anto Alosius, A. Kanagaraj, R. Murugan |
| 4 | 18112904 | Investigation of Biocorrosion Caused by Arthrobacter sulfureus in Brass | Shiv Kumar Manu, Manivannan R, S Swaroop, Noyel Victoria S,\* |
| 5 | 18113007 | Screening of Potential Bacteria from Soil Sample for Methylene Blue Dye Degradation using 16S rRNA Sequencing | Shalini, Y Pydi Setty\* |
| 6 | 18113009 | Kinetic Modeling of Simultaneous Esterification and Transesterification from Rapeseed Oil for the Biodiesel Production | Anitha Mogilicharla, Sowmya Pregnapuram |
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| **Biochemical Engg. & Biotechnology - 2 Day1: 15-02-2019 Time: 15:15-16:45 Venue: Homi Bhabha Hall** | | | |
| **S.No.** | **Paper ID** | **Title of the Paper** | **Authors** |
| 1 | 18113014 | Production of Bio-Oil using Coconut Shells | M.Shireesha, M.Surya, Ahad, Prem Kumar M, Naresh Suresh kumar.L, P. Kartheek Rao |
| 2 | M013 | Evaluation of Ethyl Gallate for its Anti-HIV and Cytoprotective activities | Muddukrishna.C, Sravan Kumar Reddy Theepi Reddy, Asha |
| 3 | M023 | Radiolytic Studies on the Degradation of Ofloxacin Antibiotic by High Energy Gamma (Co60) Irradiation | G.S.Muthu Iswarya, A.Kavithakani, B.Nirkayani, V.C.Padmanaban\* |
| 4 | M058 | Two-Step Process for Bioleaching of Valuable Metals using Cell Free Spent Medium of Ochrobactrum Sp. Cr B4 | Sedevino Sophia, Vidya Shetty |
| 5 | M114 | Multi Gene Genetic Program Modelling on L-Asparaginase Activity of Bacillus stratosphericus. | Madhuri Pola, Chandrasai Potla Durthi, Rajeswara Reddy Erva, Satish Babu Rajulapati\* |
| 6 | M115 | Modelling of Culture Parameters for L-Glutaminase Production from Novel Bacillus Sp. Mutants using Artificial Neural Network Model | Chandrasai Potla Durthi, Madhuri Pola, Rajeswara Reddy Erva, Satish Babu Rajulapati |
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| **Energy - 1 Day1: 15-02-2019 Time: 13:30-15:00 Venue: Bose Hall** | | | |
| **S.No.** | **Paper ID** | **Title of the Paper** | **Authors** |
| 1 | 18112902 | Effect of N-Butanol/Diesel Blends on Performance and Emissions Characteristics of DI CI Engine | K. Siva Prasad\*, S. Srinivasa Rao and V. R. K. Raju |
| 2 | 18112907 | Theoretical Performance Evaluation of R600a and R134a Refrigerant Based Variable Speed DC Compressors for Solar Based Cold Storage Applications | Prasanna Naveen Kumar J, Mohan Lal D\* |
| 3 | M103 | Insight on reduction of Mo based oxides and investigating its electrochemical performance as anode material for Lithium ion batteries | Pranav Kulkarni, Manohar Kakunuri\*, Geetha Balakrishna, M.V Reddy, R.S Rawat |
| 4 | 18113002 | Energy Audit Forecasting Energy by Implementing Arima Model to the Energy Consumption Dataset | R.Parkavi, S.Siva Pratheep, V. Nishanthan, S.Kaveri Kanmani, K.G.Monika, V.V.Muthu Priya |
| 5 | M038 | Development of Water Based Functional Phase Change Materials for Cool Thermal Energy Storage Applications | Amrit Kumar Thakur, M. Ponrajan Vikram, V. Kumaresan\*, R. Velraj |
| 6 | 18120202 | Energy and Exergy Analysis of a Natural Gas Fired Combined Cycle Power Plant Integrated with Calcium Looping for CO2 Capture in Indian Climatic Conditions | B. Basant Kumar Pillai, Surywanshi Gajanan Dattarao, Venkata Suresh Patnaikuni\*, Sarath Babu Anne, Ramsagar Vooradi |
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| **Energy - 2 Day1: 15-02-2019 Time: 15:15-16:45 Venue: Bose Hall** | | | |
| **S.No.** | **Paper ID** | **Title of the Paper** | **Authors** |
| 1 | 18120401 | A Review on Comparative Study of Solar Air Heater Performance with Different Shapes on Absorber Plate Surface | Pasula Rukmini, Dr. K. Sridhar |
| 2 | 18121404 | Chemical Looping Combustion based Advanced Ultra-Supercritical Coal Fired Power Plant | Surywanshi Gajanan D., B. Basant Kumar Pillai, Venkata Suresh Patnaikuni\*, Ramsagar Vooradi, Sarath Babu Anne |
| 3 | 18121409 | Bioelectricity Generation in Plant Microbial Fuel Cells With A.Fistulosum | Divya Priya, Sharon Deva, Y. Pydi Setty\* |
| 4 | 18113011 | Effect of Interdigitated Leaf Channel Bipolar plate on The Performance of PEM Fuel Cell | Srinivasa Reddy Badduri\*, G. Naga Srinivasulu, S. Srinivasa Rao |
| 5 | M008 | Influence of Exhaust Gas Recirculation (EGR) on Performance, Combustion and Emission Characteristics of Neem biodiesel on VGT Engine | Ravichandra D, Ravi Kumar Puli, Chandramohan V.P.\* |
| 6 | 18120102 | Performance evaluation of an Air Breathing–Direct Methanol Fuel Cell with different Cathode Current Collector | Muralikrishna Boni\*, S. Srinivasa Rao and G. Naga Srinivasulu |
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| **Energy - 3 Day2: 16-02-2019 Time: 11:15-12:45 Venue: Bose Hall** | | | |
| **S.No.** | **Paper ID** | **Title of the Paper** | **Authors** |
| 1 | M055 | Performance Optimization of Solar Air Heater by Structural Modifications of Absorber Plate | Nalini Dasari, Dr. K. Sridhar, G. Vinod Kumar |
| 2 | M091 | Synthesis of Sulfonated Polyether Ether Ketone (SPEEK) based Composite Membrane for DMFC | Aruna Pagidi, Murali Mohan Seepana\* |
| 3 | M096 | Heat Integration of Chemical Looping Combustion based Biomass-Fired Power Plant | S. S. Sikarwar, Surywanshi Gajanan D., B. Basant Kumar Pillai, Venkata Suresh Patnaikuni, Sarath Babu Anne, Ramsagar Vooradi\* |
| 4 | 18121411 | Performance Evaluation of Enhanced Cross-Flow Split Serpentine Flow Field Design for Large Area PEM Fuel Cells | Abdulla Sheikh, Venkata Suresh Patnaikuni\* |
| 5 | M104 | Simulation of Multiphysics in a PEM Fuel Cell | Ramakant Gadhewal, Venu Vinod A, Sunil Kumar Thamida |
|  |  |  |  |
| **Environment - 1 Day1: 15-02-2019 Time: 13:30-15:00 Venue: Ramanujan Hall** | | | |
| **S.No.** | **Paper ID** | **Title of the Paper** | **Authors** |
| 1 | 18112603 | GIS Based Assessment of Ground Water For Domestic And Irrigation Purpose in Vazhapadi Taluk, Salem, Tamil Nadu, India | P.S.Kumar, Balamurugan.P \* |
| 2 | 18113003 | Study of Water Characteristics and Power Generation from Waste Water by Microbial Fuel Cells | J. Lakshmi Jayanthi, CH. A.I. Raju, Dr. M.Venkateswara Rao |
| 3 | M087 | Enhancement of Glass Production Rate in Joule Heated Ceramic Melter | G. Suneel, Chetan P. Kaushik, P. M. Satya Sai, J. K. Gayen, K. V. Ravi |
| 4 | M007 | Performance Evaluation of Solar Assisted Photocatalyst Integrated Membrane Bioreactor for Treatment of Textile Wastewater | U. Sathya, M. Nithya and Keerthi\* |
| 5 | M015 | Experimental Evaluation of Humidification Potential of PVA Material for HDH Desalination System | R. Santosh, S. Monisha, G. Krishna Kumar, R. Velraj, G. Kumaresan\* |
| 6 | M034 | Dairy Wastewater Treatment by Electrocoagulation Process using Aluminum Electrodes | Ketan N. Makde\*, M. N. Hedaoo |
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| **Environment - 2 Day1: 15-02-2019 Time: 15:15-16:45 Venue: Ramanujan Hall** | | | |
| **S.No.** | **Paper ID** | **Title of the Paper** | **Authors** |
| 1 | M035 | Carbon Credit Evaluation of an Educational Institute a Case Study of Government College of Engineering, Amravati | S. D. Shome\*, M. L. Gulhane |
| 2 | M036 | Wastewater Treatment Using Bio-Coagulant as Cactus Opuntia Ficus Indica | S. O. Deshmukh , M. N. Hedaoo |
| 3 | M044 | A Comparative Assessment and Effect of PZ Activator towards CO2 Capture by Aqueous AMP and MDEA from a Self-Modified Coal-Fired Boiler: Rate of Absorption, Solvent Regeneration, Cyclic CO2 Loading Capacity and Reboiler Heat Duty Requirement | Anoar Ali Khan, , Venkata Swamy Nalajala, G.N. Haldera, A. K. Saha |
| 4 | M116 | Recent advancements in catalysis for conversion of plastic waste into fuels | Ramkishore E., Rajmohan K.S.\* |
| 5 | M014 | A New Amperometric Sensor for Micromolar Determination of Malathion | Jency Feminus J, P.N.Deepa\* |
| 6 | M051 | Satellite based Rationalization of Ambient Air Quality Monitoring | Rutuja Naik, Vikas Varekar\*, Ankit Patani, Jitendra Pratap Singh |
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| **Environment - 3 Day2: 16-02-2019 Time: 11:15-12:45 Venue: Ramanujan Hall** | | | |
| **S.No.** | **Paper ID** | **Title of the Paper** | **Authors** |
| 1 | M076 | Quantification of Landfill Gas Generation and Energy Potential Estimation for Municipal Solid Waste in Delhi | Abhishek N Srivastava\*, Dr. Sumedha Chakma |
| 2 | M079 | Treatment of Pharmaceutical Industry Waste using Reverse Osmosis for Optimal Potability | P. Sreenivasulu\*, S.Altaf Hussain, Pramod Kumar |
| 3 | M049 | Phyto-desalination of Saline Water | Ankit Patani, Vikas Varekar\*, Jitendra Singh, Rutuja Naik |
| 4 | M067 | Green Synthesis of Tin Metal Organic Framework using Waste PET Bottles as Source of Organic Linker for Efficient Fluoride Removal | Arnab Ghosh\*, Gopal Das |
| 5 | M121 | Fenton Treatment on Textile Waste Water; Treated and Untreated Wastewater Effect on Ecotoxic | Meka.Sarath Kumar, Kola Anand Kishore\* |
| 6 | M018 | Estimation of Nitrite using a new ZrHCF/rGO composite | Saranya.S, Athira, and Deepa P.N\* |
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| **Process and Product Development - 1 Day1: 15-02-2019 Time: 13:30-15:00 Venue: Raman Hall** | | | |
| **S.No.** | **Paper ID** | **Title of the Paper** | **Authors** |
| 1 | 18112401 | Titanium Dioxide Supported Platinum Catalyst Synthesis: Ultrasound Approach | Shital B. Potdar, Prashant Surywanshi, S.H.Sonawane, .V.S.Praveen\* |
| 2 | 18112801 | Synthesis and Characterization of Ni Nanoparticles Dispersed Graphene Oxide and N doped Phenolic Polymer Composite Electrode for Glucose Sensors | Pallab Kumar Bairagi, Nishith Verma\* |
| 3 | 18112601 | Enabling Methanol/Diesel Dual Fuel Reactivity Controlled Compression Ignition in an Automotive Light Duty Diesel engine | Ganesh Duraisamy, Murugan Rangasamy\*, Nagarajan Govindan |
| 4 | 18112602 | Natural Convection Heat Transfer in a Shell and Helical Coil Heat Exchanger using Non-Newtonian Nanofluids | B. Anil Kumar Naik and A. Venu Vinod\* |
| 5 | 18112701 | Intelligent Glove for Visually Impaired People using Haptic Feedback System | M.Neela Harish, K.Thamizharasa, R.Saravanan |
| 6 | M027 | Green Corrosion Inhibitor from Purple Hedge Leaf Extract against Mild Steel in HCl Medium: Electrochemical and Adsorption Studies | Shipra Mukhopadhyay , Dipankar Sukul, Suprakash Roy, Utpal Adhikari |
|  |  |  |  |
| **Process and Product Development - 2 Day1: 15-02-2019 Time: 15:15-16:45 Venue: Raman Hall** | | | |
| **S.No.** | **Paper ID** | **Title of the Paper** | **Authors** |
| 1 | 18112901 | Comparative Hydrodynamic Studies of Dilute Phase Vertical Pneumatic Transport in a Uniforms and Equivalent Converging Risers | Rashmi Dhurandhar\*, Jyoti Prakash Sarkar, Bimal Das |
| 2 | 18112906 | Influence of Temperature on Thermodynamic Property of Germanium in Hydrogen Peroxide Solutions | Apeksha Gupta, Atul Shukla, S Noyel Victoria, R Manivannan\* |
| 3 | M017 | Nozzle Mixers: Hydrodynamic and Mixing Time Aspects | Dr. K. Saravanan\* |
| 4 | 18113016 | Production and Characterization of Activated Carbon from Pterospernum Acerifolium | Shubham Deshmukh\*, Poonam Gera, Anjireddy Bhavanam |
| 5 | 18120501 | Influence of wire fin on performance of coiled tube heat exchanger in a small J-T refrigerator | Sai Sarath Kruthiventi\*, Govindha Rasu N, Y.V. Hanumanth Rao and Shubham Mohindru |
| 6 | M045 | Absorption of CO2 by a Down Flow Jet Loop Sparged Reactor with Circulation of an Alkaline Solution | Saravanan.K, Mugaishudeen.G\* |
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| **Process and Product Development - 3 Day1: 15-02-2019 Time: 16:50-18:20 Venue: Raman Hall** | | | |
| **S.No.** | **Paper ID** | **Title of the Paper** | **Authors** |
| 1 | 18121301 | Catalytic Co-pyrolysis of Rice Husk with LDPE Using ZSM-5 | Vinayak Mali, Sumanth Mogaveera, Shruthi P K, Prakash Binnal\* |
| 2 | 18121503 | Effect of Homogeneous Void Fraction, Slug and Droplet Lengths, and Mixture Velocity on the Heat Transfer Characteristics of a Liquid-Liquid Taylor Flow inside a Circular Microcapillary | S.V.B. Vivekanand, S. Chandrasekhar, V.R.K. Raju\* |
| 3 | M012 | Experimental Investigation on Diesel Engine using Jatropha Biodiesel with different Thermal Barrier Coated Piston | G. Vidyasagar Reddy, N. Govindha Rasu\*, T. Hari Prasad |
| 4 | M047 | Experimental Investigation on Hydrodynamics in Liquid-Solid Tapered Fluidized Bed | D. Anitha\*, V.V.Basava Rao, T.Bala Narsaiah |
| 5 | 18112702 | A study on Effect of sonication on kinetic and thermodynamic parameters on Enhancement of Zytex cellulase enzyme activity. | Sushmitha D\*, Srinath S, , Shirish S |
| 6 | M025 | Thermographic Study of Aerogel Composites | Keerthi Sanghamitra. K, Yamini Ananthan, Y.L.V.D Prasad, A.O.Siddiqui, A.Venu Vinod, Neha Hebalkar\* |
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| **Process and Product Development - 4 Day2: 16-02-2019 Time: 11:15-12:45 Venue: Raman Hall** | | | |
| **S.No.** | **Paper ID** | **Title of the Paper** | **Authors** |
| 1 | M037 | SiO2 Nanofluid Mediated Enhancement in Oxygen Mass Transfer in Pulsed Plate Column | Amruta S Shet and Vidya Shetty K |
| 2 | 18121201 | Hybrid method development for the removal of Crystal violet dye from aqueous medium | D. Naresh Yadav\*, K. Anand Kishore, Nisha Gaur |
| 3 | M080 | Effect of Process Parameters on Supported Pt Catalysts Synthesized by Electroless Deposition Method | Rishabh Saxena\*, Mahuya De |
| 4 | M112 | Time-Temperature-Cure Process Window of Epoxy-Vinyl Ester Resin for Applications in Liquid Composite Moulding Processes | Raghu Raja Pandiyan Kuppusamy |
| 5 | M059 | Experimental Investigation on Flow Boiling Heat Transfer Characteristics through Vertical Tube | S Venkata Sai Sudheer\*, K Kiran Kumar, Karthik Balasubramanian, Pardhasaradhi Naik B |
| 6 | M066 | The Systematic Studies of Transport Properties for Binary Liquid Mixture Containing Benzylacetate with Chloro Ethanes and Chloro Ethenes At (298.15, 303.15 And 308.15)K | T.Savitha Jyostna\*, D. Sreenu, B. Satheesh, G. Ramesh, E. Jayanthi Rani and G. Sowjanya. |
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| **Process and Product Development - 5 Day2: 16-02-2019 Time: 14:50-16:20 Venue: Ramanujan Hall** | | | |
| **S.No.** | **Paper ID** | **Title of the Paper** | **Authors** |
| 1 | M083 | An Experimental Study on Aluminium Metal Matrix Composite Reinforced with Boron Carbide | Hari Kumar A\*, Ramesh Babu P |
| 2 | M097 | Kinetic studies of Citrullus lanatus (Watermelon) Peel using Thermo Gravimetric Analysis | T.Aarthi, B.Sai Rohith, Naga Prapurna, S.Srinath\* |
| 3 | M106 | Impact of Feed Entry Location on Segregation of a Lean Phase Binary Mixture of Solids in a Continuous Liquid Fluidized Bed | S. Narasimha Reddy and P. S. T. Sai\* |
| 4 | M107 | Synthesis of Polysulfone (Psf) based Ultrafiltration Membrane for Oil-Water System | Aruna Pagidi, G. Arthanareeswaran, Murali Mohan Seepana\* |
| 5 | M108 | A Generalized Method to Visualize Equilibrium Position of Colloidal Particles at Different Fluid-Water Interfaces Using Hetero-Aggregation of Nanoparticles | Manigandan Sabapathy\*, Hemant Kumar, Sashikumar Ramamirtham, Mohamed Khalid, Basavaraj Madivala Gurappa |
| 6 | M001 | Significance of Bio-analytical methods in Pharmaceutical product development and Bio-analytical method development studies for traditional herb Glycyrrhiza glabra L. | D. S. S. Sai Praveen,\* S. Asha, P. Ravi Kumar |
| 7 | 18113001 | Optimization of Process Parameters for Synthesis of Xylan from Tectona Grandis | Sushmitha D, Srinath S, Shirish S\* |
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| **Process and Product Development - 6 Day2: 16-02-2019 Time: 14:50-16:20 Venue: Raman Hall** | | | |
| **S.No.** | **Paper ID** | **Title of the Paper** | **Authors** |
| 1 | M118 | Production of acrylic acid through a non-petroleum based route | K. Joseph, C. Hephzibah, K. Vyshnavi, P. Roshin, S. Murali Mohan, K. S. Rajmohan |
| 2 | 18112101 | Sonochemistry: Applications and Advantages | Sripadh Guptha Yedire, Ujwal Kishore Zore, Shirish Sonawane\* |
| 3 | 18121002 | Parametric Studies on Combined Conduction and Convection Heat Transfer in Perforated Fins | Darawath Srinu, G. Ganesh Kumar\*, Dr. K. Sridhar |
| 4 | M011 | Reactive Extraction of Phenylethanoic Acid with Tri-N-Butyl Phosphate using Six Diluents | Sandhya S. Gedam\*, Dharm Pal |
| 5 | M020 | Evaluation of Surface Property Alterations in Cocoa Pod Husk Activated Carbon Subsequent to Microwave Modification | Anju Kottekudy Antony, Anitha Joseph, Shilpa Elizabeth Thomas, Hariharan Thangappan\* |
| 6 | M113 | Debonding Analysis of Adhesive Joints in Carbon-Epoxy Composite Laminates | Raghu Raja Pandiyan Kuppusamy |
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| **Process Systems Engineering - 1 Day1: 15-02-2019 Time: 13:30-15:00 Venue: Chandrasekhar Hall** | | | |
| **S.No.** | **Paper ID** | **Title of the Paper** | **Authors** |
| 1 | 18121401 | Simulation (BSM1-P) Studies on Oxygen Concentration with Variable Flowrates in Aeration Tank of Biological Wastewater Treatment Plant | Sheik Abdul Gaffar, A. Seshagiri Rao, Murali Mohan Seepana |
| 2 | 18112908 | Fractional Order PID Controller Design for Multivariable Systems using TLBO Algorithm | Jailsingh Bhookya\* , Ravi Kumar J |
| 3 | 18113012 | Comparative Study on the Controllers for Vasopressors in Mean Arterial Pressure Control | Dr. M. Thirumarimurugan, G. C. Sowparnika, Brindha Arunachalam Senthil kumar |
| 4 | 18120301 | Enhanced Control of Second Order Unstable Time Delay Systems using a Generalized Smith Predictor Based Control Strategy | Anil B, and A. Seshagiri Rao\* |
| 5 | 18120302 | Optimization of Controller Parameters for Improved Wastewater Treatment Plant Operation by Genetic Algorithms | Soniya Panjwani, E. Tejaswini A. Seshagiri Rao\* |
| 6 | 18120201 | Unit Specific Event Based Model for Short-Term Scheduling of Multipurpose Batch Plants with Heat Integration | Semal Sekhar Mummana, Ramsagar Vooradi\* |
|  |  |  |  |
| **Process Systems Engineering - 2 Day1: 15-02-2019 Time: 15:15-16:45 Venue: Chandrasekhar Hall** | | | |
| **S.No.** | **Paper ID** | **Title of the Paper** | **Authors** |
| 1 | 18121408 | Enhanced Dynamic Set-Point Weighting Design for Cascade Control Systems with Unstable Processes | Purushottama Rao Dasari, A. Seshagiri Rao\* |
| 2 | M041 | On the Fragility of Fractional Filter Fractional Order PID Controllers for Higher Order Processes Approximated as Non-Integer Order Plus Time Delay Systems | R. Ranganayakulu, G. Uday Bhaskar Babu\*, A. Seshagiri Rao |
| 3 | M077 | Parametric Optimization of Aqueous Two Phase Extraction using RSM coupled Genetic Algorithm and Particle Swarm Optimization for extraction of proteins from Litopenaeus vannamei waste: a Comparative study | Saravana Pandian P, Sindhanaiselvan S, Subathira A, Saravanan S\* |
| 4 | M105 | Design of a Cascade Multi-model Control Strategy using Hard Switching for Nonlinear Systems | G. Maruthi Prasad, A Seshagiri Rao\* |
| 5 | M109 | VRFT based Controller Design for Non-Minimum Phase: Flexible Transmission System | Suresh Kumar Chiluka, Seshagiri Rao Ambati, Murali Mohan Seepana, Uday Bhaskar Babu Gara |
| 6 | 18121304 | Improvement of Boiler’s Efficiency by Auto Combustion Control using Ratio Control | Samuel Morris, Dr. K.Sudha Rani, Lalit Rout |
| 7 | M088 | Numerical modelling and Experimental simulations of degree of mixing in a precipitation tank | Ramresh Meena, G Suneel, J. K. Gayenand I.V.N.S.Kamaraju |
|  |  |  |  |
| **Process Systems Engineering - 3 Day1: 15-02-2019 Time: 16:50-18:20 Venue: Chandrasekhar Hall** | | | |
| **S.No.** | **Paper ID** | **Title of the Paper** | **Authors** |
| 1 | M111 | Design of Maximum Sensitivity based IMC - PI/PID Controller for Four Tank MIMO System | Haimobati Basumatary, Suresh Kumar Chilukal, S Srinath, Uday Bhaskar Babu\* |
| 2 | M117 | Design of Noise Filters for PID controlled Unstable Systems | Ediga Chandramohan Goud, Bhagya Laxmi Ch, A. Seshagiri Rao\* |
| 3 | 18120703 | Experimental Identification of process parameters using Relay feedback with state space approach | Gaikwad Rahul B., D.Kishore\*, K.Anand Kishore |
| 4 | M102 | Control of unstable SOPTD systems by Multiple Dominant Pole Method | S. Ashwin Kumar, K.Archana, R.Padma Sree, M.Chidambaram |
| 5 | M094 | Modelling Lubricant’s Volume and Viscosity with Molecular Structure | Upendra M , Ajay Kumar, G.A.Harmain, G.D.Thakre, V. Vasu |
| 6 | M095 | Computational Modelling of Ash Slagging in Chemical Looping Combustion of High-Ash Indian Coal | Dinesh Kumar Sharma, Surywanshi Gajanan D., Venkata Suresh Patnaikuni\* |
| 7 | M068 | Characterization of Density Unstable Downward Displacement Flow of Two Immiscible Fluids – Lattice Boltzmann Simulations | Prasanna R. Redapangu\*, Tsegay G/Kidan, Kiros Berhane |
|  |  |  |  |
| **Process Systems Engineering - 4 Day2: 16-02-2019 Time: 11:15-12:45 Venue: Chandrasekhar Hall** | | | |
| **S.No.** | **Paper ID** | **Title of the Paper** | **Authors** |
| 1 | 18120403 | Simulation of Distributed Parameter Model and Comparative Studies for Packed Bed Recovery of Magnesium | Dr. M. Thirumarimurugan, T. Sivakumar, Ganesh Srinivasan |
| 2 | 18120901 | Modeling, Simulation and Optimization of Thermal Systems in Supercritical Thermal Power Plant Cycle | P.Ravindra Kumar, V.Ramachandra Raju\* |
| 3 | 18121005 | Numerical investigation of heat transfer and fluid flow characteristics in circular wavy microchannels with sidewall ribs | Valaparla Ranjith Kumar\*, Karthik Balasubramanian, K Kiran Kumar |
| 4 | 18121202 | Computational Studies of Air-Glass Particle Flows for the prediction of Heat Transfer and Pressure Drop | Brundaban Patro\*, K. Kiran Kumar, D. Jaya Krishna |
| 5 | M110 | Design of Fractional Order PID using Genetic Algorithm Optimization Technique for Nonlinear System | Shivanky Jaiswal, Seshagiri Rao, Murali Mohan Seepana, G.Uday Bhaskar Babu\* |
| 6 | M031 | Analysis of Urban Water Distribution Network Using Hardy Cross Method and EPANET | R. K. Rai, P. S. Lingayat\* |
| 7 | M060 | Modeling and Simulation of Direct Methanol Fuel Cell using COMSOL | Abhishek Kumar, Murali Mohan Seepana\* |
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| **Process Systems Engineering - 5 Day2: 16-02-2019 Time: 11:15-12:45 Venue: Homi Bhabha Hall** | | | |
| **S.No.** | **Paper ID** | **Title of the Paper** | **Authors** |
| 1 | 18113010 | Comparison of Different off Bottom Impeller Clearances to Investigate the Effect on Hydrodynamics in Rushton Turbine Stirred Tank | Harshal Patil, Ajey Kumar Patel\*, K. Devarajan, A. Venu Vinod |
| 2 | M101 | Numerical Evaluation of Liquid Mixing in a Serpentine Convergent-Divergent Passive Micromixer | Shasidar Rampalli, T Manoj Dundi, S Chandrasekhar, V. R. K. Raju\*, V. P. Chandramohan |
| 3 | 18113017 | Numerical Studies on Fire Behavior Inside The Confined Area | Deepak Sahu\*, Jaspreet Chawla, Sangeeta Garg |
| 4 | 18120101 | Computational Investigation of Inert Particle Size Effect on Hydrodynamic Behavior of Fluidized Bed | K.Rajanikanth, Dr.K.Sridhar |
| 5 | 18120702 | Identification and Control of SISO Systems using Relay and Subspace Method | D.Kishore\*, K. Anand Kishore, and Rames C. Panda |
| 6 | 18120402 | Thermodynamic Analysis of Frame 9E Gas Turbine Model | Dr. K. Sridhar, G. Vinod Kumar, G. Lingaiah, D. Nalini, K. Rajani kanth, P. Rukmini |
| 7 | 18121003 | Hydrodynamic Studies of Inverse fluidized bed and CFD Simulation Analysis | L. Pavan Kumar, H. Upender , K.Anand Kishore |
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| **POSTER PRESENTATIONS Day1: 15-02-2019 Time: 16:30-17:30 Venue: Foyer - Chemical Engg. & Biotech. Block** | | | |
| **S.No.** | **Paper ID** | **Title of the Paper** | **Presenting Author** |
| 1 | 18113015 | C4 Project-The Miracle Rice | P.Shirisha |
| 2 | 18120502 | Graphene and Aluminum Batteries as Alternatives in Electric Vehicles in Indian Automobile Market | Ashok G. Matani |
| 3 | 18120504 | Blending Methanol as Renewable Fuel in Vehicles towards Environment Protection | Ashok G. Matani |
| 4 | 18121001 | Optimization of Rotavator Blade towards Enhancing the Blade Life and Higher Crop Production by using CAD Tool | Ashok G. Matani |
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| 17 | M078 | Optimization Study of Esterification of Ethylene Glycol with Acetic acid | Sowmya Pregnapuram |
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| 20 | M120 | Production of Syngas in Fluidized bed Gasifier using Rice Husk | Saswata M |