

<b>INORGANIC AND PHYSICAL CHEMISTRY</b>	
Mr. Surajit Kayal	Understanding Ultrafast Molecular Structural Dynamics in Liquids: Ultrafast Raman Loss and Transient Absorption Study
Ms. Bijyalaxmi Athokpam	Theoretical Investigation of H- Bonded O-H Vibrations, H- Atom Transfer and C-H vibrations via Empirical Valence Bond and Local Mode Based Models
Ms. Neena K K	A New Class of Boron- Nitrogen Compounds: A Rational Approach for the Design and Development of Smart Materials
Mr. Perala Suresh Kumar	Orthogonally Functionalizable Hyperbranched Polymers: Uses in Amphiphilic Hydrogels and Supported Catalysis
Ms. A. Vaishali	Aqueous and Non-Aqueous Dispersions of Graphene and Boron Nitride Nanosheets: NMR Measurements and Molecular Dynamics Simulations
Mr. Amit Gupta	Aqueous and Non-aqueous Dispersions of MoS <sub>2</sub> Nanosheets
Mr. Naiwrit Karmodak	The Structural Chemistry of Boron, Borospherenes and Borophenes: A Computational Study
Ms. Ancila Urumese	Zeolitic Imidazolate Framework(ZIF-8) Supported Nanoparticles: Synthesis and Applications
Ms. Noor U Din Reshi	Mechanistic Investigations of Transfer Hydrogenation Catalyzed by Ru(II)-Half- Sandwich and Group 6 NHC complexes
Mr. Imtiyaz Ahmad Bhat	Design and Application of Self- Assembled Coordination Cages for Catalysis and as Drug Carrier
Mr. Arun Kumar	Vanadium Complexes for DNA Crosslinking and Photodynamic Applications
Mr. Gaurango Chakrabarty	Design and Synthesis of Cyclic Diselenides and Selenenyl Sulfides for Biomimetic Applications
Ms. Lakshmi R.V	Sol-gel based organic –inorganic hybrid coatings for corrosion protection of aerospace aluminium alloy
Mr. S. Amsarajan	Chemistry of carbonized metallic nanomaterials
Ms. Kamini Mishra	Protein Adsorption on Gold Nanoparticle and Protein Surfaces Probed by Second Harmonic Light Scattering
Mr. Bedabyas Behera	Blue and Red Shifting H-Bonding in X-H...Y(X=C, O:Y=O,N,S) complexes : A Gas Phase FTIR and ab initio Study

<b>MATERIALS RESEARCH CENTRE</b>	
Ms. Nabadyuti Barman	Investigations into the Structure and Multifunctional Properties of Tellurium Doped Calcium Copper Titanate (CaCu <sub>3</sub> Ti <sub>4-x</sub> TexO <sub>12</sub> , 0 < x < 0.2) Ceramics
Mr. Prem Wicram Jaschin	Electrical and Non-linear Optical Properties of LiTa(Nb)O <sub>3</sub> Nanostructures Evolved in Borate Glass Matrices
Mr. Greeshma Chandan K	InGaN based 2D, 1D and 0D Heterostructures on Si (111) BY Plasma Assisted Molecular Beam Epitaxy
Mr. Abheek Bardhan	Integration of AlGaN with (111) Si Substrate by MOCVD
Ms. Rafia Ahmad	Overcoming Challenges Associated with Hydrogen Storage Efficiency and Fuel Cell Catalysis: An Ab Initio Study

Ms. Nisha Singhania	Oxidation of CO Catalysed by Nanometric Mono- and Bi-Noble Metals, on Various Oxide Supports
Mr. Ravi Nandan	Rational Designing of Bifunctional Electrocatalysts for Electrochemical Energy Conversion and Storage Devices
Ms. Debasmita Dwibedi	Alluaudite Class of High-Voltage Cathodes for Sodium-Ion Battery Applications: A Synthesis, Structure, Property Correlation Study
Mr. Rajasekar P	Thermoelectric Investigations of Si/ $\beta$ -FeSi <sub>2</sub> Composite
Mr. Lokesh Mohan	III-Nitride thin films and nanostructures on Si (111) by Plasma Assisted Molecular Beam Epitaxy

### ORGANIC CHEMISTRY

Mr. Raju Laishram	Properties and Applications of Metal Cholate Hydrogels
Mr. Amit Kumar Simlandy	Carbon-Carbon and Carbon- Heteroatom Bond Forming Reactions: From Organocatalysts to Quantum Dots
Mr. Balamurugan K	Self-assembly of Luminescent Metal Nanoclusters, Supramolecular Bile salt based Gels and their Soft Nanocomposites
Mr. Santhosh Rao	Molecular Construction Using Carbene and Diboron Systems: Catalytic Transformation of C-C and C-Hetero Atom Bonds

### SOLID STATE AND STRUCTURAL CHEMISTRY UNIT

Mr. Suman Das	Synthesis and Investigations of a Few Anode Materials for Alkali-based Rechargeable Batteries
Mr. Karthik R	Synthesis, Structure and properties of Inorganic-Organic Hybrid Compounds
Ms. Anamalagundam Lakshmipriya	Design of Novel Protocols for Chiral Analysis and Exploring Hydrogen Bond Directed Conformations
Mr. Biswajit Bhattacharyya	A Study of Photophysics and Photochemistry of I-III-VI <sub>2</sub> Nanocrystals
Mr. Ramesh Ganduri	Cocrystallization Studies Extending from Small Molecules to Proteins: a) Cocrystals, Salts and Eutectics b) Chemical, Structural and Biological Evaluation of Anthrapyrazolones as Inhibitors of JNK Proteins
Mr. Tuhin Samanta	Computational Studies of Hydrophobic Force Law, Dynamics in Model Asymmetric Binary Mixtures, and Contribution to One and Two Dimensional Infrared Spectroscopy

### COMPUTER SCIENCE & AUTOMATION

Mr. Rohit Vaish	Interplay of Incentives and Computation in Social Choice
Ms. Kommineni Vasanta Lakshmi	Model Checking Temporal Properties of Presburger Counter Systems
Mr. Girish Maskeri Rama	Program Analysis to Support Memory-savings Refactorings in Java Programs
Mr. Medicherla Raveendra Kumar	Static analysis and automated testing of file- processing programs

Mr. Talha Bin Masood	Geometric and Topological Methods for Biomolecular Visualization
Mr. Aniket Basu Roy	Approximation Algorithms for Geometric Packing and Covering Problems
Mr. Goutham Tholpadi	Algorithms for Multilingual IR in Low Resource Languages using Weakly Aligned Corpora
Mr. Ashish Mishra	Typestates and Beyond: Verifying Rich Behavioral Properties Over Complex Programs
Ms. Monika Gajanan Dhok	Automated Test Generation and Performance Improvement using Dynamic Program Analysis
Mr. Aravinda Prasad	Interactions Between the Procrastination-Based Synchronization and Memory Allocator
Mr. Gaurav Pandey	Deep Learning with Minimal Supervision
Mr. Prasenjit Karmakar	Stochastic Approximation with Markov Noise: Analysis and applications in reinforcement learning
Mr. Vinayaka Ganapati Yaji	Stochastic Approximation with Set-Valued Maps and Markov Noise: Theoretical Foundations and Applications
Mr. Raman. S	Structured Regularization Through Convex Relaxations of Discrete Penalties
Mr. Abhiruk Lahiri	Problems on Bend Number, Circular Separation Dimension and Maximum Edge 2-Coloring

### ELECTRICAL COMMUNICATION ENGINEERING

Mr. Neeraj Kumar Sharma	Information Rich Sampling of Time-varying Signals
Mr. Hemanth G	FEM based Stochastic Analysis of Tolerance in Electromagnetic Periodic Structures
Mr. Manas Kumar Lenka	Blocker-tolerant Receiver Design Suitable for Software-defined and Cognitive Radio Applications
Mr. Mohit K. Sharma	Design of communication systems with energy harvesting transmitters and receivers
Ms. Priyanka Das	Optimal relay selection in interference-constrained underlay cooperative cognitive radio networks
Ms. Divya Sai Keerthi	Designing Solutions to Counter the Attacks in Mobile Ad hoc Networks
Mr. Bhawani Shankar Leelar	Machine Learning Algorithms Using Classical and Quantum Photonics
Mr. Birenjith P S	High-Rate MSR Codes. Interior- Point Regenerating Codes, and Codes with Hierarchical Locality
Mr. Tarun Choubisa	Design, Development, Deployment and Performance Evaluation of Pyroelectric Infra-Red and Optical Camera based Intrusion Detection Systems in an Outdoor Setting
Ms. G Srivani Padma	Fiber Bragg Grating Sensor Based Devices for Novel Biomedical Applications
Mr. Bhawani Shanker Bhati	Design of Privacy Protection Schemes for Mobile Adhc Networks using Rough Set Theory

Mr. Venkateswara Rao Kolli	Integrated Optic Microring Resonator based Sub-uN Force and Acceleration Sensors
Mr. Saurabh Khanna	Bayesian Techniques for Joint Sparse Signal Recovery: Theory and Algorithms
Mr. Anoop Thomas	Index Coding, Error Correcting Index Codes and Matroids
Ms. Chandrika T N	Design and Analysis of Integrated Optic Waveguide Grating for Sensor and communication Applications
Mr. Mahesh Babu Vaddi	Adjacent Independent Row (AIR) Matrices and Index Coding
Mr. Swapnil Shantaram Ninawe	Design of Authentication and Privacy Schemes for a Generic Social Network
Mr. Jishnu Sadasivan	Risk Estimation Strategies for Speech Signal Denoising
Mr. Balaji S B	Erasure Codes for Distributed Storage: Tight Bounds and Matching Constructions
Mr. Pramod R T	Compositionality of object representations in brains and machines
Mr. Avinash Mohan	On Reduced-State Optimal Scheduling for Decentralized Medium Access Control of Wireless Data Collection Networks

<b>ELECTRICAL ENGINEERING</b>	
Mr. Shiva Kumar K A	Distributed Target Tracking in Camera Networks
Mr. Hemanth Kumar S	On Applications of 3D- Warping and An Analysis of a RANSAC Heuristic
Mr. Shantanu Chakrabarty	Algorithms for adjusted load flow solutions using the Complementarity principle
Mr. Ajit Kumar	Enhancement of Small Signal Stability in Power Systems: Novel Approaches
Mr. Shakthi Prasad Dakappa	Investigations on the Corona Degradation of Polymeric Insulating Samples
Mr. Nimesh V	Dual Comparison One Cycle Control for Grid Connected Converters
Mr. Anil Kumar Adapa	Analysis, Control and Applications of Active Phase Converters for Single-Phase Power Grids
Mr. Sk. Mohammadul Haque	Denoising and Refinement Methods for 3D Reconstruction
Mr. Santosh J	Upper Frequency Bound on Circuit-Based Models for Transformer Windings
Mr. Narasimhan R S	Target Detection and Tracking under Non-ideal Conditions in Airborne Radars
Mr. Subhadip Mukherjee	Sparsity Driven Solutions to Linear and Quadratic Inverse Problems
Mr. Subhash Joshi T G	Power Electronic Technologies for Medium and High Power High Voltage Power Supplies
Mr. Kasicheyanula Saichand	Modeling, Analysis and Control of Ultracapacitor based Bidirectional DC-DC Converter Systems
Mr. Alok Ranjan Verma	Degradation Studies on Polymeric Insulators used for EHV and UHV Transmission

Mr. Suresh Kirthi K	Multisource Subnetwork Level Transfer in Deep CNNs Using Bank of Weight Filters
Ms. Apeksha Madhukar	Stationary diesel exhaust treatment by blending discharge plasma/ozone with industry wastes: a study on abatement of NOx and THC

### ELECTRONIC SYSTEMS ENGINEERING

Mr. Bhushan Kotnis	Analysis and Control of Cascades in Complex Networks
Mr. Chaitanya Kumar Matcha	Signal Processing and Coding for Two-Dimensional Magnetic Rerecording
Mr. Apurv Kumar Yadav	Investigations on Multilevel Voltage Space Vectors Generated by Stacked and Cascaded Basic Inverter Cells with Capacitor Voltage Control for Induction Motor Drives
Mr. Krishna Raj R	Studies on Multilevel Twenty- Four Sided Polygonal Voltage Space Vector Structure Generation with a Single DC Link for Variable Speed Drive Applications
Mr. Ananda Sankar Chakraborty	Quantum-Drift-Diffusion Formalism Based Compact Model For Low Effective Mass Channel MOSFET
Mr. Nalesh S	Energy Aware Synthesis of Accelerators on a Network of HyperCells

### BIOSYSTEMS SCIENCE AND ENGINEERING

Mr. Puneet Singh	The Role of Basal Ganglia and Redundancy in Supervised Motor Learning
Ms. Queeny Dasgupta	Tailored Xylitol-based Biodegradable Polymers for Tissue Engineering and Drug Delivery
Ms. Gowri Manohari B	Engineering 3D Organotypic Models for the Study of Breast Cancer Metastasis
Mr. Pradeep S	Molecular determinants of self-assembly of the pore forming toxin Cytolysin A
Mr. Sreenath Balakrishnan	Investigations into the change in biomechanics of liver cells upon Hepatitis C Virus Infection
Ms. Sharmistha Naskar	Lab-on-a-chip platform for stem cell differentiation and functionality in regenerative medicine
Mr. Akshay Datey	Mechanistic insights into the effects and applications of shockwaves in prokaryotic and eukaryotic organisms
Mr. Rajeev J Mudakavi	Development of anti-infective therapy against intracellular pathogens using targeted particulate delivery systems
Mr. Gaurav D. Sankhe	Insights into signaling and crosstalk in two component signaling systems of Mycobacterium tuberculosis

### COMPUTATIONAL AND DATA SCIENCES

Mr. Ashutosh Simha	Global control of mechanics on Riemannian manifolds and applications to under- actuated aerial vehicles
Ms. Mahnaz Mohammadi	An Accelerator for Machine Learning Based Classifiers

Ms. Gutta Sreedevi	Improving Photoacoustic Imaging with Model Compensating and Deep Learning Methods
Mr. Ravi Kiran S Sarvadevabhatla	Deep Learning for Hand Written Sketches: Analysis, Synthesis and Cognitive Process Models
Mr. Konda Reddy Mopuri	Deep Visual Representations: A study on Augmentation, isualization, and Robustness
Mr. V. Jagannath	Stabilized finite element schemes for computations of viscoelastic free-surface and two-phase flows

<b>CENTRE FOR NANOSCIENCE AND ENGINEERING</b>	
Mr. Pranay Mandal	From independent control to self-propulsion of helical nanoswimmers: towards all magnetic active matter
Mr. Shubhadeep	Materials, Processes and Device Design for High Performance, Sub- thermionic MoS2 FETs
Mr. Abinash Tripathy	Fabrication and Characterization of Nanostructured
Mr. Chinthala Ramesh	Hardware-Software Co- Design Accelerators for Sparse BLAS
Mr. Neeraj Kamal Singh Kumar	Finite element Method based Model Order Reduction for Electromagnetics
Ms. Sherine Alex	Development of Cu-based intermetallic reflector materials for Concentrated Solar Power Application
Mr. Prashanth R	Versatile sensing platform using silicon photonic microring resonators
Mr. Jagdish A K	Nano-scale design, fabrication, and performance evaluation of organic photovoltaic devices
Mr. Soumyadeep Dutta	Resistive Switching and Electron Transport in Perovskite Oxide Thin Films
Mr. Saptarsi Das	Reconfigurable Accelerator for High Performance Application Kernels
Mr. Amiya Banerjee	Integration of Functional Oxide Films on Semiconducting Substrates
Ms. Ipsita Biswas	A Novel Algorithm-Architecture Co-Designed System for Dynamic Execution-Driven Pre- Silicon Verification
Mr. Deepak Ranjan Nayak	Development of Nanosensors and Microfluidics Towards Raman Spectroscopic Applications
Ms. Swathi Suran	Bright Field Nanoscopy
Mr. G. P. Raghavendra Yasasvi	Towards Logic Circuit Applications using Solution Processed CNTs
Mr. Chandan Samanta	Internal resonances and nonlinearities in atomically thin resonators
Ms. Samatha B	Nanostructured Metal Oxide Semiconductor Gas Sensor
Mr. Krishnendu Chakraborty	Multiplexing Nanoplasmonic Sensors
Ms. Nivedita Basu	Exploration of materials and platforms for the development of a label-free electrochemical DNA sensor
Mr. Praneet Prakash	Transport in Interfacial Systems: Biosensor, Polymer, Colloid and Bacteria

Mr. Saumitra Y	Development and application of multi-photon microscopy in Neuroscience and Nanoscience
Ms. Shubhi Bansal	Droplet Interface Oscillations using Electrowetting-on- Dielectric (EWOD) for Open-Chip Microfluidic Applications
Mr. Anomitra Sil	Structural Magnetic and Electrical Studies of Multiferroic BiFeO <sub>3</sub> and CuO Epitaxial Thin Films
Ms. Namrata Singh	Development of Nanomaterials as Antioxidant Enzyme Mimetics for Cellular Redox Homeostasis
Ms. Jayanthi Swetha	Graphene and graphyne – based three dimensional porous architectures
Mr. Rohith Soman	Normally off Al <sub>x</sub> Ga <sub>(1-x)</sub> N/GaN devices: Materials, process and device architecture innovations

### INTERDISCIPLINARY CENTRE FOR ENERGY RESEARCH

Mr. Satish Naik	A New Class of Single DC- Link Fed Multilevel Inverter Topologies for Grid Connected Photovoltaic Systems with Reduced Component Count and Inherent Capacitor Balancing
Ms. E. Hemaprabha	Cryomilled Group IV elements (Silicon & Germanium) for optoelectronic applications

### MANAGEMENT STUDIES

Ms. Vindhyalakshmi A	Repeat Purchase Behaviour Of Online Customers for Grocery Products
Mr. Avnish Kamal	A Study Of Composition & Performance Of Global IT Project Teams: An Analysis of Cross-Sectional, Longitudinal & Exceptional Performances
Mr. Gaurav Dilip Tikas	Predicting Innovation Capability At Team Levels: An Exploratory Analysis
Mr. Dinakar Prabhu	Event Study Methodology Development and Its Application In Assessing the Impact Of Derivatives Introduction In The National Stock Exchange (NSE) India
Mr. Malolan Sundararaman	Development of Mathematical Models for a Class of Component Remanufacturing Problems with Breakeven Analysis
Ms. Archana B A	Measurement of the viral phenomenon: new methodological exploration
Mr. Rajesh Kumar	Revenue management in remanufacturing
Mr. Srihari M	Characterizing Patenting in an Indian University System: A Case Study
Mr. Rashmeet Singh	Interlinkages, Innovation, Internationalization and Economic Performance of Manufacturing SMEs In Bangalore
Mr. Deepak C	Absorptive Capacity, Cluster-level interactions, Innovation and Performance of Firms in the High- tech Manufacturing Cluster of Bengaluru
Mr. Vighnesh N. V	Environmental Behaviour of Indian ICT consumers in the context of e-waste: An Exploratory Study
Mr. Wasimakram	Online Consumer Behaviour In Low Involvement Products: Purchase Behaviour And Cognitive Attributes

<b>SUPERCOMPUTER EDUCATION AND RESEARCH</b>	
Mr. Yoginder Kumar Negi	Fast Solvers and Preconditioning Methods in Computational Electromagnetics

<b>AEROSPACE ENGINEERING</b>	
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Mr. Siva M.S.	Integrated Relative Position and Attitude Control of Distributed Spacecraft Formation for High Resolution Imaging
Mr. Brahmanandam Javvaji	Plasmon Phonon Coupled Dynamics of Nanocrystalline Structures
Mr. Srinath S	Development of Novel Heat Transfer Gauges Based on Large Carbon Clusters to measure total as well as radiative heat flux for planetary entry configurations in hypersonic shock tunnels
Mr. P M Gnanendra	Experimental Studies on Co-Current Downdraft Biomass Gasifier
Mr. Rohan L Deshmukh	Lattice Boltzmann Relaxation Schemes for High Speed Flows
Ms. Balakalyani G	Experimental Investigation on Hypersonic Flowfield around Spiked Axisymmetric Bodies
Mr. Obed Samuel Raj I	Experiments on Varying Intensity Air Blasts in Shock Tubes
Mr. Shuvrangshu Jana	Novel Biplane Micro Air Vehicle System with Adaptive Control and Vision Augmentation
Mr. Harshavardhana A U	Flame Particle Tracking Analysis of Turbulence- Premixed Flame Interaction
Mr. Sabyasachi Mondal	Constrained Optimal Guidance Design of Interceptors for High-Speed Ballistic Targets
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Mr. Rammohan B	Design and Analysis of Multifunctional Composites for Unmanned Aerial Vehicles
Mr. Indrajit Mukherjee	Aeroelasticity of Flapping Wings Towards Micro Air Vehicle Applications
Mr. Karthikeyan N	On the contribution of the launch platform towards acoustic environment of a launch vehicle at lift-off
Mr. Nandagiri Venkata Raghavendra	Discrete Velocity Boltzmann Schemes for Inviscid Compressible Flows
Mr. Surya Prakash R	Liquid Jet in Swirling Crossflow
Mr. Nithin K P	A Unified Framework for Micromechanical Damage Modeling in Laminated Polymer Matrix Composites
Mr. V D Ragupathy	Studies on –Non-Destructive Evaluation of Friction Stir Weld Discontinuities with Probability of Detection
Mr. Tarandeep Singh	Characterization of a large scale hypersonic shock tunnel and investigation of the effect of roughness on a large cone boundary layer flow
Mr. Sushovan Mukherjee	Phononic bandgap engineering in cellular periodic structures and mechanical metamaterials
Mr. Kumaresan D	Non-linear Vibration of Beam Immersed in Fluid



Mr. Shuvajit Mukherjee	Uncertainty Modeling and Analysis of Aerospace Structures
Mr. Ashish Khandelwal	Mechanics of martensitic phase transformation in shape memory alloys: experiments and modelling
Mr. N. Jagannathan	Matrix cracking in polymer matrix composites under static and fatigue loading

### CENTRE FOR ATMOSPHERIC AND OCEANIC SCIENCES

Mr. Prateek Gantayat	Determination of Glacier Volume from Satellite Data and Modeling Future Retreat of Glaciers in the Indian Himalaya
Mr. Angshuman Modak	Efficacy of Solar Irradiance, Methane and Black Carbon aerosols
Mr. Kapil Dev Sindhu	Characteristics of convective clouds over the Indian monsoon zone derived from weather radar data
Ms. Ambica Behara	Effect of Rainfall and River Discharge on the North Indian Ocean
Ms. P V Arushi	Influence of Western Ghats Orography on Temporal and Spatial Distribution of Rainfall over South Asia
Ms. Shubhi Agrawal	Impact of Local and Remote Land-Atmosphere Coupling on The Indian Summer Monsoon
Ms. Sayli Atul Tawde	Estimation of Glacier Mass Balance at Basin Scale in the Himalaya for Recent Decades and Future

### CENTRE FOR EARTH SCIENCES

Mr. Swarandeeep Sahoo	Improved laboratory and computational models for thermal core-mantle interaction
Mr. Yogaraj Banerjee	Monsoon seasonality during journey of the Indian plate from southern hemisphere revealed using clumped isotope and stable isotope proxies in mollusc shell growth bands
Mr. Anupam Banerjee	geochemical and Nd-Sr-Ca isotopic study of silicate weathering, crustal recycling and petrogenesis of carbonatites

### CHEMICAL ENGINEERING

Mr. Pushkaraj Joshi	Inject printed nanostructured silver and metal coated silver films on flexible substrates – A versatile platform for sensing applications
Mr. Ganesh Madabattula	Modelling and Experimental Studies on Dynamic Behaviour of Electrochemical Double
Ms. V Vadhana	Structure and Dynamics of Fluids Under Nanoscale Confinement
Mr. Sagar B	Rheology of Dense Granular Chute Flows
Mr. Mandapaka Ravi Kiran	Development of noble metal catalysts and detailed kinetic models for CO oxidation and water gas shift reactions
Mr. Rubesh Raja	Modelling and optimization of novel therapies for HIV and hepatitis C virus infections

### CIVIL ENGINEERING

Mr. Mrityunjay Pandey	Semi-active Control of Earthquake Induced Vibrations in Building Structures using MR Dampers: Algorithm Development and Benchmark Application
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Ms. Lepakshi Raju	Studies on Characteristics of Cement Stabilised Rammed Earth and Flexural Behaviour of Plain and Reinforced Rammed Earth
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Mr. Balreddy Muttana S	Liquefaction and Post Liquefaction Behaviour of Sand-Fines Mixtures
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