IMPLAST- 2022 Schedule

Venue: ICSR Building
Near Gajendra Circle, Opposite to Admin Building, IIT Madras

21-Aug-2022

16:00-18:30(IST) Registration

22-Aug-2022

8:30 - 10:00 (IST) Registration

10:00 - 11:00 (IST) Inauguration (ICSR Auditorium)

11:00 - 11:20 (IST) Tea

Session I :- ICSR Auditorium
11:20-13:00 (IST)

Lunch Break:-13:00- 14:00 (IST) (ICSR Dining HAll)

Session II
14:00-15:45 (IST)

Hall-1 — A (High Strain Rate Studies-1)

Sl. No.	Paper ID	Author	Title
Session Chair-IIA			Vinoth K- IITJ
1	333	Sanjay Kumar	An Investigation Of The Dynamic Behavior Of Multilayered Aluminium Alloy Aa5083 At High Strain Rate Loading.
2	337	Girish Bojjawar	High Strain Rate Deformation Of Additively Manufactured Ti-6Al-4V
3	160	Ashish Pandey	Dynamic Characterization Of Willow Wood Used In The Manufacturing Of Cricket Bat
4	217	Sristi Gupta	Micromechanics Based Convolutional Neural Network Model For Prediction Of Stresses In Polymer Composites
5	232	Bhargav Reddy Isanaka	Stress-Strain Behaviour Of Lattice Structures Using A Surrogate Modelling Approach
6	257	Vinod Kumar M S	Studies Of Solid Particle Erosion Behavior Of Superco-605 And Ti-31 Superalloys
7	28	S M Anas	Role Of Shear Reinforcement On Punching Shear Resistance Of Two-Way Rc Slab Subjected To Impact Loading

HALL-2 — B (New Materials and Manufacturing-1)

Sl. No.	Paper ID	Author	Title
1	KNS-IIB	Manoj Kumar B (RCI)	On overview of composite product design
2	3	Olusegun Adigun	Effect Of Hollow Glass Microsphere (Hgm) On Impact And Flexural Properties Of High Density Syntactic Foam Based Epoxy Composites
3	30	Manmohan Dass Goel	Effect Of Geo-Material On Dynamic Response Of Tunnel Subjected To Surface Explosion
4	32	Manmohan Dass Goel	Sandwich Panel With Different Web Cores Under Blast Loading
5	35	Madhav Umbharatwala	Numerical Model Optimization Of Meso-Scale Fabric Composite Under Bullet Impact
6	37	Pradeep Mulabagal	Numerical Analysis Of Penetration Characteristics Of Conical Fragments In Ballistic Applications
7	83	Santosh Kumar Rajak	Mechanical And Sliding Wear Analysis Of Porcelain Reinforced Sae660 Bronze Bearing Alloy Composite Fabricated By Stir Casting Method

HALL-3 — C (Blast and Impact-1)

Sl. No.	Paper ID	Author	Title
1	KNS-IIC	Santosh Kapuria IITD	Wave Packet Enriched Finite Elements for Accurate Modelling of Wave Propagation in Piezoelastic Media under Impact and Thermal Shock Loading.
2	47	Shipra Sinha	Comparative Study Of Single Tunnel And T-Intersection Subjected To Impact Load
3	64	Nishant Choudhary	Effect Of Explosive Location On The Response And Damage Behavior Of Reinforced Concrete Wall
4	65	Sagar Tanaji Ghatke	Parametric Study On Ballistic Impact Response Of Ceramic-Composite Armour
5	71	Nikhil Khaire	Blast Resistance Of Graded Aluminium Foam Core Sandwich Structure Against Blast Loading
6	97	Waqas Imteyaz	Stability Analysis Of Shallow Tunnels In Soft Ground Regime.
7	100	B Karthikeyan	Deep Punch Indentation Of Metallic Cellular Solids
8	271	Pravendra Kumar	Influence Of Different Ground Parameters On Energy Transfer Under Blast Loading

Tea:- 15:45- 16:00 (IST)

Session III
16:00-18:00 (IST)

Hall-1 — A (High Strain Rate Studies-2)

Sl. No.	Paper ID	Author	Title
1	89	Ankesh Kumar	An Experimental Approach To Analyze The Effect Of Impact Loading On Shallow Tunnels In Weak Rockmass
2	67	Navya Gara	Numerical Analysis On Dynamic Behaviour Of Al 2024 Alloy Using Shpb Technique
3	136	Saravanan M K	Rate Depedent Cohesive Zone Modelling Between Polyurea Steel Interface
4	284	Mohammed Afzal Rafiq	Elastoplastic Design Of A Dome Structure For Water Impact Loads
5	224	Narayana Murthy	Modification Of Strain Rate Effect In J-C Material Model
6	74	Pundan Kumar Singh	High Strain Rate Tensile Testing Of Thin Automotive Sheet Steel
7	173	Amit Kumar	Experimental and Numerical Study of Large Elastoplastic Deformation

HALL-2 — B (New Materials and Manufacturing-2)(Online)

Sl. No.	Paper ID	Author	Title
1	51	Feng Zhu	Impact Response Of Prismatic Li-Ion Battery Cells
2	4	Cmde (Dr.) Nagesh	Numerical Studies On Deformation And Tearing Of Clamped Circular Plates Subjected To Uniform Impulsive Loads
3	40	Manoj Kumar	Numerical Analysis Of Windowed Origami-Ending Crash Tubes
4	44	Murlidhar Patel	A Novel Design Of Blast Proof Sandwich Structure With Hybrid Skin
5	45	Shivdayal Patel	Ballistic Performance Of 3D Kevlar/Basalt Hybrid Composite Armors
6	46	Murlidhar Patel	Numerical Analysis Of Honeycomb Sandwich Structure Under Blast Load
7	70	Anand Kumar Sah	Design And Analysis Of Hybrid Composite Panels Under Ballistic Impact

HALL-3 — C (Numerical Simulation-1)

Sl. No.	Paper ID	Author	Title
1	178	Amit Kumar	Accurate Modeling of Wave Propagation in Functionally Graded Solids using Wave Packet Enriched Finite Elements
2	11	Palak Bhagoria	Finite Element Analysis Of Ballistic Impact On Dissimilar Multi-Layered Metal Targets
3	34	Manmohan Dass Goel	Numerical Simulation Of Water Tank Used For Underwater Blast Testing
4	68	Prakash A	Numerical Investigation Of The Influence Of The Design Parameters On The Blast Mitigation Response Of Steel Plate Subjected To Free-Air Blasts
5	72	Errababu. K	Assessment Of Crash Survivability Of Typical Helicopter Using Ls-Dyna Simulation
6	202	Sasanka Kakati	Effect Of Open Holes On The Delamination Of A Glare Plate Subjected To Low Velocity Impact
7	23	Aman Kumar	Effect Of Angle Of Impact On Performance Of Aluminum Plate Against Ogive Projectile
8	190	Sidharth R	Simulation Of Ductile Failure In 316Ln Stainless Steel Using An Instability Based Failure Criterion

Cultural programme (Central Lecture Theatre) - Special Dinner(ICSR Dining HAll)
18:00- 21:30 (IST)

23-Aug-2022

Session IV
09:00-11:00 (IST)

Hall-1 — A (High Strain Rate Studies-3)

Sl. No.	Paper ID	Author	Title
1	KNS-IVA	Mohmad Asraf IITR	Dynamic Behaviour of materials
2	60	Shivani Verma	A Novel Pulse Shaping Technique To Forecast The Behaviour Of Brittle Material Using Split Hopkinson Pressure Bar
3	162	Brahmadathan V B	Experimental Investigation Of Dynamic Behaviour Of Ceramic Material And The Introduction Of Umt Based Constitutive Model
4	212	Akshaya Gomathi K	Impact Analysis Of Concrete Structure Using Rate Dependnet Damage Model
5	250	Shanideo Namdeo Jadhav	Static And Dynamic Strength And Failure In Fibre-Reinforced Ultra High-Performance Concrete
6	129	Ranjithkumar S	High Strain Rate Behavior Of Fiber-Reinforced Self-Compacting Concrete At Early Ages
7	75	Amit Joshi	A Comparative Study On Cryorolling And Cryo Cross Rolling Treatment On Tensile And Fracture Properties Of Al 5052 Alloy

HALL-2 — B (New Materials and Manufacturing-3)

Sl. No.	Paper ID	Author	Title
1	KNS-IVB	Puneet Mahajan IITD	Impact and repair of wind turbine blade subjected to rain drop impact.
2	55	Nilamber Kumar Singh	A Comparative Study On The Tensile Behaviour Of Three Magnesium Alloys
3	56	Nilamber Kumar Singh	Behaviour Of A Stir Casted Aluminium Hybrid Composite Under Compressive And Bending Loads
4	58	Saptal Vaibhav Saudagar	Effect Of Adding Elastomeric Polypropylene And Polyurethane Foams On Crashworthiness Response Of The Aluminium Reinforced Honeycomb Structure
5	61	Sijoy C.D	Higher-Order Cell-Centered Finite Volume Scheme For The Simulation Of Elastic-Plastic Flows In 3D
6	16	Sachin Kumar	Impact Response Of Rc Beams Through Contacting And Non-Contacting Sensors
7	346	Akula Komuraiah	Determination of crystalinity of natural fibers – a study with spectroscopy

HALL-3 — C (Numerical Simulation-2)

Sl. No.	Paper ID	Author	Title
1	KNS-IVC	Anindya Deb IISC	INSIGHTS INTO VEHICLE HEAD IMPACT SAFETY AND CRASHWORTHINESS DESIGN DRIVEN BY CAE
2	73	Vaibhav Bhandari	Finite Element Analysis Of Reinforced Concrete Target Against Blast Loading
3	86	Anuj Bhonge	Blast Response Analysis Of Composite Column
4	98	Debasree Das	Simulation Of Void Closure Mechanisms In Deep Wedge Indentation Using Remeshing
5	117	Venu Shankabattula	Numerical Modelling & Simulation Of Stiffened Mild Steel Structure Subjected To Near-Field Blast Loading
6	118	Bijit Kalita	Evaluation Of Mechanical Properties Of Laser Powder Bed Fusion Produced 17-4 Ph Stainless Steel Using Fem
7	293	Mohd Aamir	Effect Of Blast Location And Explosive Mass On The Dynamic Behavior Of A Bowstring Steel Highway Girder Bridge Subjected To Air-Blast
8	246	Jai Prakash Kamal	Study Of Blast Pressure, Velocity And Mass Distribution Of Controlled Fragments Caused By Cylindrical Warhead

Tea:- 11:00- 11:15 (IST)

Session V
11:15-13:00 (IST)

Hall-1 — A (High Strain Rate Studies-4)

Sl. No.	Paper ID	Author	Title
1	187	Prasenjit Khanikar	High strain rate deformation behavior of suction-cast dual-phase high entropy alloy
2	258	Lekhana Chandran	Modelling The Failure Of Advanced Ceramics Under High Strain Rate Compression
3	276	Kavita Ganorkar	Dynamic Strength Enhancement Of Concrete In Split Hopkinson Pressure Bar Test
4	299	Venkatesh M Deshpande	Optimizing Pulse Shaper Dimensions For Testing Rocks In Split Hopkinson Pressure Bar
5	330	Talapareddy	A Novel Numerical Method For Reinforced Concrete Members Subjected To Blast Loading
6	340	Khushi Ram	Investigation Of Supersonic Shock Wave Loading Response On Thin Metallic Sheets
7	342	Sanjay Kumar Tak	Axial Compression Behavior Of Mild Steel Tubes With Different Configurations Under Dynamic Loading Condition
	288	Anupoju Venkata Naga Sai Swathi Kiran	An Experimnetal Setup to Study the Dynamic Deformation of Rupture Discs

HALL-2 — B (New Materials and Manufacturing-4)

Sl. No.	Paper ID	Author	Title
1	KNS-5B	Senthilvelan IIT Guwahati	Challenges in Thermoplastic Composites
2	62	Aman	Numerical Investigation Of Thums (Total Human Model For Safety) Lower Extremity Fe Model For Under-Body Blast
3	63	Vishal Mehra	Application Of Sellars-Tagart Constitutive Law To Modelling Of Friction-Stir Welding Of Cucrzr Plates
4	80	Deepak Kumar	Synergetic Effect Of Hbn And Additive Y2O3 On The Mechanical And Wear Behaviour Of Sic-Hbn Ceramic Matrix Composite
5	81	Venkataramana Ikkurthi	Computational And Experimental Studies Of Penetration Resistance Of Ceramic-Metal Composites
6	82	Saurabh:	Energy Absorption And Impact Response Of Flat Aramid Sandwich Structures Subjected To High Velocity Impact
7	20	Parameswaran Sivakumar	Numerical Investigation Of Debris Impact On Multi-Layer Kevlar Shield
8	319	JayaganthanR	Analysis Of High-Speed Impact Behaviour Of Al 2024 Alloy Using Machine Learning Techniques

HALL-3 — C (Blast and Impact-2)

Sl. No.	Paper ID	Author	Title
Session Chair-VC			Vijayabaskar Narayanamurthy DRDO-Scientist-F
1	101	Saurabh Ravidas Rathod	Influence Of Oblique Impact On Curved Composite Structure Against Cylindrical Projectiles
2	116	Daniel Paul	Low Velocity Impact Of Composite Tubes With Hollow Glass Particle-Filled Matrix
3	122	Abinas Nayak	Ballistic Performance Of Bio-Mimicked Nacreous Scale Protection System On Concrete Target - A Numerical Investigation
4	131	Madhav Kumar Gupta	Dynamic Responses Of Monolithic And Sandwich Al 7075T-6 Plates Under Blast Loading: A Comparative Study
5	137	Satya Sundar Sahoo	Dynamic Response Of Steel With Aluminium Foam-Based Sandwich Structure Under Blast Loading
6	140	Sri Krishna Sudhamsu Kambhammettu	An Entropy Based Damage Model To Assess The Creep Life Of Nickel Based Superalloys
7	22	Aman Kumar	Fe Investigation on Behaviour of Al-alloy Tubes Subjected to Axial Impact

Lunch Break:-13:00- 14:00 (IST) (ICSR Dining HAll)

Session VI
14:00-15:45 (IST)

Hall-1 — A (High Strain Rate Studies-5)

Sl. No.	Paper ID	Author	Title
1	176	Anshul Faye	Void Growth In Amorphous Polymers: Effect Of Loading Rate
2	186	Ruchir Shrivastava	Role Of Notch Location And Loading Rate On Tensile Strength Of Glass/Epoxy Composites
3	104	Itkankhya Mahapatra	Effect Of High Strain Rate On The Tensile And Compressive Behaviour Of 3D Printed Abs Polymer
4	254	Kaushal Gangwar	Effects Of Varying Strain Rates And Temperatures On The Tensile Behavior Of Niti/Kapton Polyimide Bimorph
5	210	Mir Aamir Abbas	A Simplified Method For Upper-Bound Estimation Of Residual Deformation Under Small Deformations Regime
6	359	Ankush P. Sharma	Mechanical characterization of bio-sandwich structures with composite skins and coconut shell powder-filled epoxy core
7	132	Saurabh Singh	Stress Wave Propagation Using Meshfree Material Point Method

HALL-2 — B (New Materials and Manufacturing-5)

Sl. No.	Paper ID	Author	Title
1	84	Venkataramana Ikkurthi	Computational Modeling Of Composite Armor And Effect Of Cnt Inclusion Using Orthotropic Material Model
2	85	Mayank Rai	Parametric Study Of Re-Entrant Honeycomb Cored Auxetic Sandwich Panel Exposed To Blast Loading
3	87	Srinivasagopalan Madhavan	Spall Fracture In Aluminum Bicrystals : Molecular Dynamics Study
4	88	Srinivasagopalan Madhavan	On The Relationship Between Shock And Particle Velocities In Single And Bicrystal Systems Of Aluminum : A Molecular Dynamics Study
5	99	P. A. Shirbhate	Parametric Study On Blast Response Mitigation Using Tube Reinforced Honeycomb Sandwich Structures
6	21	Vishal Mehra	Tip Splitting And Ring Formation In Impact Of Hollow Al-6061 Cylinders On Al-6061 Plates
7	234	Varun Charles	Experiments On Crush Behaviour Of Three Basic Geometries

HALL-3 — C (Numerical Simulation-3)

Sl. No.	Paper ID	Author	Title
Session Chair-VIC			Abhishek Rajput -IIT Indore
1	121	Joseph Solomon	An Experimental–Numerical Investigation On Uhmwpe Composite Panel Subjected To Ballistic Impact With Lead Core Ball Projectiles
2	142	Ravindranaidu Ganta	Numerical Investigation Of The In–Plane Dynamic Crushing Of Cellular Solids
3	145	Partha Sarathi Sahoo	Finite Element Analysis Of Superplastic Deformation Of Ti6Al4V Due To Equal Channel Angular Pressing Alongwith A Back Pressure
4	158	Rohit Sankrityayan	Characterization Of Near Field Blast Response Of Aluminium Honeycomb Using Finite Element Simulations
5	180	Amit Mishra	Prediction Of Hole Expansion Ratio In Dual Phase Steels Using A Dual Scale Fe Simulation With Strain Gradient Effects
6	198	Akhil Vp	Finite Element Analysis Of Crash Tube Subjected To Impact Loading
7	29	Aman Kumar	FE Investigation On Behaviour Of Al-Alloy Tubes Subjected To Axial Impact

Tea:- 15:45- 16:00 (IST)

Session VII
16:00-18:00 (IST)

Hall-1 — A (Others-1)

Sl. No.	Paper ID	Author	Title
1	13	Rajenthira kumar D	Behaviour Of Hard-To-Form Material In Friction Stir Incremental Forming Process
2	1	Param Gajbhiye	Thermal Analysis Of Laminated Plates Using Quasi-Three-Dimensional Theory
3	42	Lokanath Barik	Development Of C1 Smooth Basis In Isogeometric Analysis For Multipatch Domain
4	43	Sourabh Rajoriya	Vibration Mitigation Of Stay Cable Using Sma Wire: A Numerical Study
5	352	Sanjay Kumar Tak	A Review On The Crashworthiness And Structural Advancements In Thin Metallic Tubes
6	143	Sumit Choudhary	A Study On Low Cycle Fatigue Behavior Of Aa5086-H116
7	19	Vimal Kumar	Influence Of Prestressing Force On Performance Of Prestressed Concrete
8	358	Prashant Rawat	Understanding the effects of altering impact velocities and temperatures on basalt textile: An experiment approach

HALL-2 — B (New Materials and Manufacturing-6)

Sl. No.	Paper ID	Author	Title
1	53	Nilamber Kumar Singh	Post-Necking Behaviour Of Al5052-H32 Using Weight Average Method
2	111	Pabitra Maji	A 3D Shear Deformation Theory For The Dynamic Response Of Braided Composite Shells Under Low-Velocity Impact
3	112	Sibi Nandhan S	Biomimetic Design Approaches For Impact Applications: A Review
4	114	Ankush P. Sharma	High-Velocity Impact Response Of Titanium/Composite Laminates: An Analytical Modeling
5	123	Yeswanth Pydi	Characterization Of Porcine Lung Parenchyma For Blunt Impact Loads
6	128	Manoj K. Singh	Residual Properties And Failure Characterization Of Glass/Epoxy Laminates: Effect Of Slender Filler Reinforcement
7	39	Aman Kumar	Effect Of Projectile Nose Angle On Resistance Of Aluminum Target Against Oblique Impact

HALL-3 — C (Blast and Impact-3)

Sl. No.	Paper ID	Author	Title
1	38	Kalinga Gulbarga	Approach For Ensuring Fuel Tank Crashworthiness Using Ls Dyna Simulation
2	146	Bikram Jyoti Sahariah	High Energy Absorbing Tubular Structures Made Of Lattice With Zero Poisson'S Ratio
3	147	Kamarthi Balakrishna	Understanding Impact Loading On Rocks And Its Implication: An Insight
4	154	Vivek Singh	Overall Response Estimate For Fluid-Filled Elastomers Subjected To Impact Loading
5	165	Ankur Trigunayak	Impact Mitigation In A Conico-Cylindrical Projectile During Sub-Ordnance Velocity Impact
6	166	Satyendra Pratap Singh	Exact Solution For Impact Response Of Layered Elastic Media
7	339	Venkatesan J	Ballistic Resistance Of Finite Plate Targets Against 7.62 Nato Ap Ammunition
8	36	Hirmukhe Sidram Sayabanna	Effects Of Spherical And Cubical Fragment Shape On Damage Of Steel Target Plate In Ballistic Application

24-Aug-2022

Session VIII
09:00-11:00 (IST)

Hall-1 — A (Others-2)

Sl. No.	Paper ID	Author	Title
1	Chair-VIIIA	Balaganesan IIT M	Impact study of sandwich glass epoxy composite panels subjected to hydro static pressure
2	52	Vignesh S	An Investigation On Pre-Mature And Extended Contact Behaviour Of Pa-6 And Pa-6,6 Gears
3	54	Saurabh Gairola	Effect Of Inter Crack Distance On Fatigue Crack Growth Behaviour Of Severe Plastic Deformed Al 2024 Alloy
4	57	Gaurav Singh	Effect Of Friction Coefficient And Feed Rates On Residual Stresses Of Zr-4 Processed By Swaging
5	79	Keerthi Gowda B S	A Study On Tensile Strength Attributes Of Banana Polyester Composites
6	91	Arpan Nandy	Strainburst Damage Assessment Of Kannur Limestone Using Piezo Transducers
7	92	Pravinkumar Ghodake	Nonlinear Waves In Discontinuous Functionally Graded Nonlinear Materials

HALL-2 — B (New Materials and Manufacturing-7)

Sl. No.	Paper ID	Author	Title
1	169	Ramkumar Kaushik	Impact Analysis Of Uncontained Engine Rotor Debris On Rotorcraft Structure
2	133	Nikesh Girdhari Kuthe	Potential Of Development Of Anti-Erosion Graphene Reinforced Coatings For Wind Turbine Blades
3	139	Shaik Sadikbasha	Study On Sandwich Structures With Auxetic Hexachiral Core Under In-Plane Loading
4	151	Shashwat Kapoor	Optimization Of Multi-Layered Composite Structure Against Impact Loading
5	172	Vivek Kumar	Continuum Damage Modelling Of High-Performance Fiber-Reinforced Composite Under Extreme Loading
6	18	Vimal Kumar	Performance Of Rc Plates Subjected To Explosive Loading
7	220	Raguraman Munusamy	Quasi-Static Compression Testing of 3D Printed Carbon Fibre-Onyx-Fr Based Sandwich Structures for Lightweight Applications

HALL-3 — C (Numerical Simulation-4)

Sl. No.	Paper ID	Author	Title
1	KNS-VIIIC	Gopalakrishnan Srinivasan IISC	A novel Bio-Inspired Blast mitigation for sandwich structures
2	239	Ashish Mishra	Numerical Investigation Of Behind The Armour Ballistic Trauma Of Ceramic-Composite Armour System
3	223	Rahul Dubey	Finite Element Analysis Of Impact Behaviour Of Cryogenic Temperature Rolled Aa 6082
4	227	Rishabh	Visualisation Of Flow And Impact Process Of Oils Used In Shirodhara Treatment On A Flat Plate Under The Influence Of Gravity
5	230	Dr. Pankaj Kumar Sharma	Analytical And Numerical Studies Of Hemispherical Closure Shell Subjected To Blast Loading
6	241	Avinash Mohan M	Impact Behavior Of Auxetic Structures: Experimental And Numerical Analysis
7	244	Gautam Kumar	Structural Analysis Of Non-Prismatic Column Using Finite Element Approach

Tea:- 11:00- 11:15 (IST)

Session IX
11:15-13:00 (IST)

Hall-1 — A (Others-3)

Sl. No.	Paper ID	Author	Title
1	KNS-IXA	S Natarajan IITM	Scaled boundary finite element method - a semi-analytical approach to linear elasticity, elasto-plasticity and damage modelling
2	222	Raguraman Munusamy	Prediction Of Residual Stresses In The Thin-Walled Ti6Al4V Specimens Manufactured Through Laser Powder Bed Fusion Process
3	94	Harsh Bedarkar	Effect Of Incremental Sheet Forming Process Parameters On Surface Roughness In Inconel 625 Sheets
4	95	Sajad Ahmad Bhat	Towards High-Fidelity Crystal Plasticity Finite Element (Cpfe) Modelling Of Large Strain Manufacturing Processes
5	115	Jaynandan Kumar	Predicting The Failure Envelope Of Calcified Aneurysmatic Tissue
6	127	Manash Jyoti Baishya	A Crashworthy Lightweight Lattice Structure Having A Composite Strut-Plate Lattice Topology Optimized Using The Design Of Experiments Technique
7	138	Ankit Malik	Dynamic Characterization Of Goat Tibia

HALL-2 — B (New Materials and Manufacturing-8)

Sl. No.	Paper ID	Author	Title
1	KNS-IXB	A Arockiarajan IITM	Theoretical and experimental mechanics on Layered Magneto-Electric Composites
2	307	Commodore (Dr.) Nagesh	FEA and Structural Response Validation Of Composite Cylindrical Pressure Vessels
3	181	Gaurav Rathore	Investigation Of Mechanical Properties Of Glass Fibre/Sic- B4C Reinforced Hybrid Polymer Composite
4	188	Sachin H	Influence Of Porosity And Temperature Load On Buckling Characteristics Of Functionally Graded Material Plates
5	189	Sai Shiva Sakaraboina	Dynamic Response Of Micron Sized Thick Films To Laser Induced High Pressure Shock Waves
6	197	Sandeep Kumar Singh	Atomistic Insights To Study The Effects Of Nano-Voids On Shock Compression Behaviour Of Single Crystal Nickel
	207	ABHISHEK KUMAR	Effect Of Grain Size And Strain Rate On Tensile Work Hardening Behavior Of Two Different Single Phase Fcc Metals

HALL-3 — C (Blast and Impact-4)

Sl. No.	Paper ID	Author	Title
1	195	Senthil Kasilingam	Influence Of Reinforcement Bar On The Performance Of Reinforced Concrete Slab Under Impact Loading
2	215	Ponthot	Uncoupled Damage Models To Predict Ductile Fracture In High-Speed Metallic Sheet Blanking
3	216	Prasanna Mondal	Review Of Mechanical Properties And Low Velocity Impact Response Of Tpu2 Auxetic Structures
4	226	Suresh D	Damage Evaluation Of Tunnel Due To Internal Blast In Adjacent Tunnel
5	236	Vagish Datta Mishra	Enhancement Of Mechanical Properties Of Aluminum Alloy By Ballistic As Severe Plastic Deformation
6	14	RAJEEV KUMAR	EFFECTS OF CRH VALUE ON DAMAGE RESISTANCE OF ALUMINUM PLATE UNDER BULLET IMPACT

Lunch Break:-13:00- 14:00 (IST) (ICSR Dining HAll)

Session X
14:00-15:45 (IST)

Hall-1 — A (Others-4)

Sl. No.	Paper ID	Author	Title
Session Chair-XA			Gowthaman-IIITD
1	144	Akshay Kumar	Stability Analysis Of Structural System With Epistemic Uncertainty
2	148	Mayank Chouksey	Mesoscopic Simulation Of Ductile Failure By Void Growth Under Non-Proportional Loading
3	149	Pravinkumar Ghodake	Inverse Design Of Linear Mechanical Metamaterial To Control Wave Propagation In Elastic Rod
4	150	Sobhan Pattajoshi	Dynamic Fracture Behavior Of Layered Composite Under High Strain Rate Loading
5	221	N.Murugan	Experimental Investigation Of Behaviour Of Tubular T-Joint Of Jacket Structures
6	263	Charitha Mudi And Amit Shaw	Development Of A Simplified Numerical Model To Characterize The Ballistic Behavior Of Woven Fabrics

HALL-2 — B (New Materials and Manufacturing-9)

Sl. No.	Paper ID	Author	Title
1	211	Ankur Chaurasia	Energy Absorption Capabilities Of Bnns Reinforced Polyethylene Nanocomposites: A Compressive Shock Behavior
2	205	Arjun Anil	Enhancement Of Crashworthiness In Lateral Corrugated Frustums Subjected To Axial Loading
3	206	Kartik Shankar Kumbhare	Low-Velocity Impact Response Of Jute / Banana Fiber In Natural Rubber Based Hybrid Composites: Fe Approach
4	208	Pawan Kumar Soni	Numerical Simulation Of Failure Of A Rock Slope With Tension Crack Under Blast Loading
5	209	Senthil Kasilingam	Transient Dynamic Response Of Clay Brick Masonry Walls Of Varying Aspect Ratio Against Low Velocity Impact Load
6	312	Samrat Tamuly	High Strain Rate Tensile Testing Of High Strength Steel Using Split Hopkinson Pressure Bar

HALL-3 — C (Numerical Simulation-5)

Sl. No.	Paper ID	Author	Title
1	50	Gaurav Tiwari	Ballistic Response Of Composite Helmet
2	262	Gibina Jamal	Finite Element Analysis Of Frp Boat Hull Under Slamming Load
3	281	Mrunali Haridas Surpam	Analy Sis And Design Of Pre-Fabricated Steel Building Using Sap2000.
4	289	Pavani Udatha	Modal Analysis Of Functionally Graded Material Plate And Tube Shaft Using Ansys
5	306	Mythreyi O V	Residual Stress Analysis Of Additively Manufactured & Post Processed Inconel 718
6	315	Dhaladhuli Pranavi	Constitutive Relation For Modelling Anisotropic Fracture In Fiber Reinforced Composites At Finite Strain
7	362	R. Gayathri	LS dyna impact modelling on CFRP composite aircraft panel with various impactors

Tea:- 15:45- 16:00 (IST)

Session XI
16:00-18:00 (IST)

Hall-1 — A (Others-5)

Sl. No.	Paper ID	Author	Title
1	287	Md Muslim Ansari	An Investigation Of Damage Of Aircraft Composite Structure Caused By Foreign Object Debris Impact
2	233	Govind Gour	Experimental Investigation Of Dynamic Strain Localization In Additively Manufactured Titanium Alloys
3	235	Ganesh Somnath Gawali	Seismic Analysis Of G+20 Storey Building On Sloping Ground Using Etabs
4	240	Dr. Kamal Krishna R	Numerical Analysis Of Structural And Thermal Characteristics Of Automotive Disc Brake Rotor
5	242	Saiarpan V Joshi	Stress Analysis Of Thin Rectangular Section Subjected To Twisting Moment
6	243	T S Sreejith	Stress Analysis Of A Member Of Jacket Structure With Different Type Of Stiffeners
7	108	Raviraj Verma	Study On Fatigue Crack Growth Behaviour Of Deded Ti-6Al-4V Alloy Through Xfem

HALL-2 — B (New Materials and Manufacturing-10)

Sl. No.	Paper ID	Author	Title
1	201	Mohan T P	Dynamic Mechanical Analysis Of Glass Fiber Reinforced Epoxy Filled Nanoclay Hybrid Composites
2	213	Oluwatoyin Joseph Gbadeyan	Effect Of Loading Nano-Clay On Banana Fibers Infused Epoxy Composite Thermal Property And Wear Rate
3	218	Soniya Chaudhary	Propagation Of Shear Waves In Viscoelastic Layered Structure
4	225	Shreyas Nandakumar Harithsa	Computational Study On Subsonic Impact Resistance Of Lattice Structures In 3D Printed Thin Ti6Al4V Plates
5	303	S M Anas	Behavior Of Two-Way Rc Slab With Different Reinforcement Orientation Layouts Of Tension Steel Under Drop Load Impact
6	31	Shubham Bhutada	Progressive Collapse Study Of 6061-T6 Aluminium Alloy Tubes Under Axial Impact Loading Phenomenon
7	24	Abdullah Ansari	Evaluation Of Seismic Fragility For Circular Tunnels In The Himalayan Region To Undestrand The Earthquake Induced Damages

HALL-3 — C (Blast and Impact-5)

Sl. No.	Paper ID	Author	Title
1	26	Manoj Kumar	Numerical Simulation Of Ballistic Performance Of Monolithic And Multilayer Thin Metallic Targets
2	238	Saurabh Mangal	Oblique Impact Simulation Study Of Ti-6Al-4V Alloy Plates For Analysis Of Blade-Off Event In Turbofan Aero-Engines
3	245	Chalichemala Lalan Krishna	Investigation Of The Effect Of Ceramic/Glass Fiber Sandwich Composite To Projectile Impact
4	248	Beri Ashok Kumar Reddy	Effect Of Hybrid Fibers On The Impact Behaviour Of Concrete Panels
5	253	Arghya Das	A Visco-Plastic Model To Analyse The Impact Loading Response In Synthetic Rock
6	266	VIJAYAN M	Low-velocity Impact Response of the Nanosilica Reinforced Aluminum/PU/GFRP Laminates

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Session XII
09:00-11:00 (IST)

Hall-1 — A (Others-6)

Sl. No.	Paper ID	Author	Title
1	78	B S Keerthi Gowda	A Study On Tensile Strength Attributes Of Jute Fiber Reinforced Polyester Composites
2	247	Lokamanya Chikmath	Effect Of Cold-Working On Corrosion Induced Damage In Lug Joints
3	255	Dr.T.Geethapriyan	Microstructure And Mechanical Properties Of Wire Arc Additive Manufactuered Stainless Steel 308L For Cryogenic Application
4	256	Sugunesh A P And Johnney Mertens A	2D And 3D Numerical Investigation Of Delrin Spur Gear
5	265	Tulika Dixit	Understanding The Dynamic Compression Behaviour Of Boron Modified As-Cast Ti-6Al-4V Alloy
6	228	Mansingh Yadav	Numerical Investigation Of Transient Heat Conduction Analysis In Functionally Graded Material (Fgms) Using Matlab Partial Differential Equation (Pde) Toolbox
7	41	Nikhil Diwakar Andraskar	Ballistic Response Of Alumina Plates Against Steel 4340 Projectile

HALL-2 — B (New Materials and Manufacturing-11)

Sl. No.	Paper ID	Author	Title
1	17	Dr Rajeev Chaturvedi	Impact Damage By Spherical Projectile On Aluminum Honeycomb Sandwich Panel, Theoretical And Experimental Study
2	332	Arun Prasad Moorthy	Experimental Analysis On Formability Of Cupro-Nickel (90/10 Cu-Ni) During Single Point Incremental Forming Process
3	349	S M Anas	Impact Response Prediction Of Square Rc Slab Of Normal Strength Concrete Strengthened With (1) Laminates Of (I) Mild Steel And (Ii) C-Frp, And (2) Strips Of C-Frp Under Falling-Weight Load
4	350	Mohd Shariq	Effect Of Concrete Strength On The Dynamic Behavior Of Axially Loaded Reinforced Concrete Column Subjected To Close-Range Explosive Loading
5	251	Raveesh R.M	Finite Element Modelling And Experimental Validation Of Strain Gauge Pasted Over The Surface Of A Substrate Subjected To A Transverse Load
6	12	Gaurav Verma	Drop Analysis Of Plate-Type Fuel Assembly In A High Flux Reactor
7	49	Rukmangad Sanjay Barad	Dynamic Characterization Of Additively Manufactured Chiral Lattice Embedded Structure

HALL-3 — C (Numerical Simulation-6)

Sl. No.	Paper ID	Author	Title
1	KNS-XIIC	Ratna Kumar Annabattula IITM	Dynamic Compressive Behaviour of Hexagonal Honeycomb Structures
2	317	K.Suganeswaran	Aerodynamic Analysis Of Trucks Using Computational Fluid Dynamics
3	324	Anshul Kaushik	Numerical Analysis Of Underground Tunnel System With Gfrp Shield Against Internal Explosion
4	325	Gyanesh Patnaik	Numerical Analysis Of Underground Pipelines With Cfrp Against Surface And Subsurface Blasts
5	326	Sazid Khan	Experimental And Numerical Study Of Ballistic Impact Of 2024-T351 Aluminum Alloy
6	338	Vinoth Dhanasekaran	Numerical Investigation Of Vertical Roller Mill Operation Using Discrete Element Method
7	341	Arya Prakash Padhi	A New Deep Learning Accelerated Blast Loading Effect Analysis
8	345	Sanjay Kumar Tak	Numerical Investigations On Axial Plastic Deformation Of Metallic Tubes Under Drop Impact Loading

Tea:- 11:00- 11:15 (IST)

Session XIII
11:15-13:00 (IST)

Hall-1 — A (Others-7)

Sl. No.	Paper ID	Author	Title
1	168	Narayan K Sundaram	Plastic Flow Past Narrow And Wide Angle Wedges In Indentation
2	267	Dr. L. Prince Jeya Lal	Evaluation Of The Compression Properties Of 3D Printed Pa-Gf Tpms Structures
3	272	Prerna Singh	Behavior Of Flexible Cantilever Wall Under Seismic Loading
4	344	Dhruv Narayan	Design And Fabrication Of A Single Stage Gas Gun
5	348	Vinay Kumar Yadav	Effect Of Mean Stress On Low Cycle Fatigue Behavior Of Friction Stir Welded Aa2024-T3
6	354	Aakash Saini	Axial Compression Performance Of Thin-Walled Metallic Tube With Unconventional Shapes Under Different Loadings: An Overview
7	252	Suvadeep Sen	Constitutive Model Based Study To Enable Flexible Operation Of Steam Turbine Rotors In Indian Spps

HALL-2 — B (New Materials and Manufacturing-12)

Sl. No.	Paper ID	Author	Title
1	KNS-XIIIA	D Saji (NAL)	Feild Repair of Aircraft Structures
2	329	Surender Kumar Sharma	Magnetic Pulse Welding Of Thin Walled Ferritic Martensitic T91 Tube To T91 Rod
3	343	Niranjan Chikkanna	Application Of Peek And Fiber Reinforced Peek In Total Cervical Disc Arthroplasty: A Review
4	292	Chillu Naresh	Investigation On Degradation Studies And Deformation Behaviour Of Water Diffused Al-Epoxy Nanocomposites
5	301	Abjesh Prasad	Thermal Degradation Of Kinetics Of Pet, Ptt And Pbt Hybrid Nanocomposites
6	308	Priya Selvamany	Studies On Thermal, Mechanical, And Morphological Properties Of Aged Xlpe Cables
7	323	Arghya Mondal	Coupled Flexural And Torsional Vibration Attenuation With Lr Metamaterials
8	286	Kichu Paul	Applicability Of Meshfree Method In Computational Solid Mechanics

HALL-3 — C (Blast and Impact-6)

Sl. No.	Paper ID	Author	Title
1	163	Vimal Kumar	Behaviour Of Reinforced And Prestressed Concrete Slabs Under Multiple Impacts
2	273	Rashmi	Behavior Of Rc Structural Member Subjected To Blast Loading
3	278	Lekhani Gaur	Response Of Sdof System Coupled With Inerter Based Isolators Under Blast Load
4	284	Mohammed Afzal Rafiq	Elastoplastic Design Of A Dome Structure For Water Impact Loads
5	291	Semion Kingslee S	Understanding The Impact Of Functionalisation Of Foam On Electrical And Mechanical Properties Of Epoxy Composites
6	300	Mithilesh Kumar Dewangan	Perforation Of Aa-2024 Aluminium Targets Subjected To Impact By Spherical Aluminium Projectiles
7	322	Kaviarasu K	Secondary Wave Reflection Removal Mechanism For Blast Wave Simulator
8	347	Thoudam Sarnath Singh	Effect of phase size, distribution and elastic contrast on the fracture toughness of multi-phase materials

Lunch Break:-13:00- 14:00 (IST) (ICSR Dining HAll)

25-Aug-2022 14:00-16:00 (IST) Valedictory function(pannel discussion) (ICSR Auditorium)