



Schedule

Day 1 : 6th December 2018 (Thursday)
Registration : 8:30 AM onwards (TIIR Building, 1st Floor)
Inauguration : 9:30–10:15 (TIIR Building Auditorium)
High Tea : 10:15–10:55

Plenary Session

6th December 2018

Venue: TIIR Building Auditorium

	Guest Speaker	Time
Plenary Talk 1	Prof. S. K. Sarangi, Professional Fellow, IIT Bhubaneswar Academic Advisor, C V Raman College of Engineering	11:00–11:45

Technical Session I-A

6th December 2018

Time: 11:55–13:12

Venue: Seminar Hall–1, TIIR Building

Sl. No.	Author's Name	Title of the Paper	Time
1	Pranshul Varshney	Effect of grain boundary relaxation on the corrosion behavior of nanocrystalline Ni-P alloy	11:55-12:07
2	Dannana Dimple	Simulation and estimation of reaction force and Drill accuracy of CFRP composites	12:08-12:20
3	Prakash Marimuthu	Residual Stresses Modelling of End Milling Process Using Numerical and Experimental Methods	12:21-12:33
4	Nagaraju Nidhi	Effect of La ₂ O ₃ and Nd ₂ O ₃ on Densification, microstructure and hardness of 8YSZ ceramics	12:34-12:46
5	Abhishek Sharma	A review on the fabrication of in-situ metal matrix composite during friction stir welding	12:47-12:59
6	Divya Singh	Effect of crack on the tensile strength of a bicrystal Zr– a MD based evaluation	13:00-13:12
7	Soumendu Monia	Study of spangle size variation in hot-dip-galvanized steel sheets	13:13-13:25

LUNCH BREAK: 13:25–13:55

Ground Floor, TIIR Building

6th December 2018

Venue: TIIR Building Auditorium

Sl. No.	Guest Speaker	Title of the Paper	Time
Keynote 1	Prof. G. G. Roy IIT Kharagpur	Mathematical Model for Gas Dynamics and Reduction in Gas Fired Rotary Hearth Furnace for Sponge Iron Production	14:00–14:45

Technical Session II-A

6th December 2018

Time: 15:00–16:17

Venue: Seminar Hall–1, TIIR Building

Sl. No.	Author's Name	Title of the Paper	Time
1	Ranjita Swain	Recovery of Valuable Materials From Bauxite Mining Waste for Industrial Application	15:00-15:12
2	Sunita Routray	Studies on Recovery of Industrial Heavy Minerals From Lean Deposits of Brahmagiri Coast of Odisha, India	15:13-15:25
3	K Vijay Reddy	Atomistic study of fracture behaviour of metallic glass fibre reinforced metal–matrix nanocomposite during bending creep deformation process	15:26-15:38
4	Pushpdant Jain	Bone degeneracy a parameter to identify suitable pedicle screw for Lumbar Vertebrae: a biomechanical analysis through finite element study	15:39-15:51
5	Krishna Chaitanya Katakam	Deformation behavior of single linear surface defect nickel nanowire at different temperatures studied by molecular dynamics simulations	15:52-16:04
6	Tanmaya Badapanda	Investigation of Dielectric and conductivity behaviour of PMMA–RGO polymer nanocomposites	16:05-16:17

TEA BREAK: 16:17–16:20

Technical Session II–B

6th December 2018

Time: 15:00–16:17

Venue: Seminar Hall–2, TIIR Building

Sl. No.	Author's Name	Title of the Paper	Time
1	K Raja Rao	Synthesis and Phase Investigation of Equiatomic AlCrFeMnNi Alloys Dispersed with Partially Stabilized Zirconia for Nuclear Applications	15:00-15:12
2	Bidyut Prava Jena	A study on Acoustic property of composites from waste tires	15:13-15:25
3	Aditya Kumar Choudhary	A New Class of High Entropy Alloys Prepared by Mechanical	15:26-15:38

		Alloying	
4	Ramkumar Chandran	Characterization of chemically synthesized highly stable polydisperse plasmonic silver nanoparticles	15:39-15:51
5	Venkata Swamy Nalajala	The effect of gas bubbling and hydrogen peroxide on sonochemical synthesis of zinc oxide	15:52-16:04
6	D Narsimhachary	Influence of joint configuration on mechanical properties of laser weld-brazed aluminum to steel joint	16:05-16:17

TEA BREAK: 16:17–16:20

6th December 2018

Venue: TIIR Building Auditorium

Sl. No.	Guest Speaker	Title of the Paper	Time
Keynote 2	Prof. P. P. Bhattacharya IIT Hyderabad	Bulk Heterostructured High Entropy Alloys: Emergence of a Novel Class of Advanced Structural Materials	16:20–17:00
Keynote 3	Dr. Bhaskar Majumdar Defence Metallurgical Research Laboratory, Hyderabad	Futuristic W Based Composites For Defence Applications- DMRL Perspective	17:00-17:45

CULTURAL EVENING: 19:00 onwards

TIIR Building Auditorium

Day 2 : 7th December 2018 (Friday)

POSTER SESSION-I

7th December 2018

Time: 9:00–10.15

Venue: 3rd Floor HALL, TIIR Building

Sl. No.	Author's Name	Title of the Paper
1	Anand Babu Kotta	Effect of mineralogy on reduction behaviour of iron ore pellets
2	Sujata Devi	Study of Calcium Treatment in Steel Ladles for the Modification of Alumina Inclusions to avoid Nozzle Clogging during Casting
3	Abhijit Deogharia	Synthesis and characterization of pure, silver and sodium silicate doped hydroxyapate
4	Tanmoy Das	Resistance spot welded Al 1100 alloy with carbonaceous interlayers
5	Soumen Mandal	Investigations on the influence of process parameters over bead properties during material deposition by Plasma Transferred Arc Welding Process
6	Jagadish Parida	Wear Behavior of Plasma Processed LM6 Alloy
7	Prashanth M	Hot and cold deformation, densification and workability behavior of sintered compacts through powder metallurgy technique– A technical review paper
8	B Vinith	Synthesis and characterization of novel high entropy alloys
9	Royal Madan	Limit elastic analysis of FG ceramic rotating disk on the basis of effective mechanical properties
10	Soumya Sobhan Dash	Effect of welding current and sheet thickness on microstructural and mechanical properties of MIG welded mild steel plates.
11	Agnivesh Sinha	Experimental Investigation of Surface Modified Abaca Fibre
12	Mohammad Adil Dar	Improved performance of coal bottom ash co-mixed concrete
13	Nasimul Alam Syed	Comparative Study of Eutectic Sn–Zn, Sn–Ag, Sn–Bi and Sn–Cu Solder Alloys
14	Manisha Singh	Poly Lactic Acid, Poly Acrylic Acid and Ethanol Based Bio-Materials for PCF Design
15	Princy Choudhary	Bacterial Cellulose based composites: Preparation and Characterization

16	Satya Prakash Kar	Thermal modeling of transport phenomena for a pulsed laser melting process
17	Saurabh Das	Role of Marangoni Convection in a repetitive laser melting process
18	Neelam Mishra	Predicting Effective Electromechanical Properties of Pb-free Polymer Composite using Finite Element Method
19	Amlan Das	Scanning probe microscopy studies on electrochemically synthesized few-layer graphene nano-sheets
20	Unanda Nanda	Optimization of dry sliding wear behaviour of AA6061 (as cast) and AA6061 (HT) aluminium alloy using design of experiment approach
21	Bandana Panda	Investigation on the Optical, electrical and dielectric properties of La _{0.7} Ca _{0.3} MnO ₃ (LCMO) via. different routes: A comparative analysis of micro and nanoparticles
22	G.P. Bajpai	OM and SEM observations on the hierarchy of microstructure in white cast iron

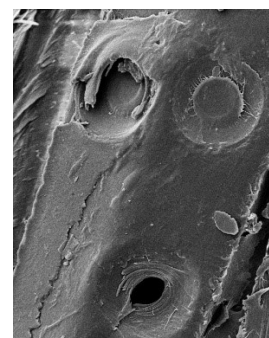
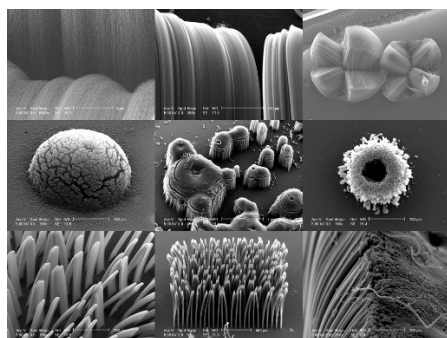
TEA BREAK: 10:15–11:30

METALLOGRAPHY CONTEST

7th December 2018

Time: 9:00–10.15

Venue: 3rd Floor HALL, TIIR Building



POSTER SESSION – II

7th December 2018

Time: 10:30–11:45

Venue: 3rd Floor HALL, TIIR Building

Sl. No.	Author's Name	Title of the Paper
1	Alok Behera	Fatigue life prediction of multidirectional carbon fiberepoxy composites using linear and nonlinear constant life diagrams

2	Srinivasu Dasari	Effects of temperature on the tensile behaviour of Glass/Carbon inter-ply hybrid FRP Composites
3	Pradeep Gupta	Temperature and loading rate effect on the load-displacement response of metal-metallic glass (Al-Cu50Zr50) layered structure during nano-indentation
4	Janaki Dehury	A Study on the mechanical behavior of Jute-Epoxy laminated composite and its hybrid
5	Shaik Shajahan	Effect of current density and deposition time on Ni-W alloy coating and evaluation of corrosion and wear resistance
6	Srinath M K	Mathematical Modeling on the Residual Stresses in Coatings Due to Heat Treatments
7	Sagar Yandrapu	Effect of bath concentration during electrophoretic deposition on the interfacial behaviour of hybrid FRP composites
8	Krishna Chaitanya Nuli	Synergetic Impact of carbon nanotube and/or graphene reinforcement on the mechanical performance of glass fiber/epoxy composite
9	Akhya Kumar Behera	An investigation on anti-corrosion properties of electroplated copper-graphene nano-composites
10	Singaravel B B	Performance Analysis of Vegetable Oil As Dielectric Fluid in Electric Discharge Machining Process of Inconel 800
11	Mangapathi Rao Kusumba	Experimental Analysis of Canola Oil As Dielectric Fluid in Electric Discharge Machining of Aisi D2 Steel
12	Mouparna Manna	Evaluation of Ni62Nb38 bimetallic glass formation under hydrostatically pressurised quenching.
13	Harish Bishwakarma	Optimization of process parameters in micro-electrochemical discharge machining by using grey relational analysis
14	Md. Meraj	An anomaly in creep property dependence on grain size for ultrafine grain nanocrystalline Nickel at higher creep temperature
15	Soumyasree Jena	Role of Exchange-correlation functional in the Band Structure of Bulk Bismuth
16	Sritama Roy	Resistive switching behaviour of dip coated ZnO films with the variation in withdrawal speed
17	Sasmita Kar	An overview of structural integration impact on performance development of fiber hybrid composites
18	S.K. Agnihotri	SEM analysis of fracture surface characteristics in carbon steel under complex loading conditions

19	Vikas Gadpale	Effect of Ageing Time on Tribological Behavior of Al-Cu Alloy 2014
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7th December 2018

Venue: TIIR Building Auditorium

Sl. No.	Guest Speaker	Title of the Paper	Time
Plenary Talk 2	Dr. Ing. K. G. Prashanth Norwegian University of Science and Technology	Metallurgy of Additive Manufacturing	11:50-13:00

LUNCH BREAK: 13:00–13:55
Ground Floor, TIIR Building

7th December 2018

Venue: TIIR Building Auditorium

Sl. No.	Guest Speaker	Title of the Paper	Time
Keynote 4	Prof. Gouthama IIT Kanpur	Advances in Microscopy and Nanoanalysis of Materials	14:00-14:45

Technical Session III–A

7th December 2018

Time: 14:50–16:07

Venue: Seminar Hall 1, TIIR Building

Sl. No.	Author's Name	Title of the Paper	Time
1	Yagnem Anil Reddy	Effect Of Square Micro–Fin Structure On Heat Transfer Studies In Pool Boiling Using DI Water	14:50-15:02
2	Palash Swarnakar	Designing novel multiferroic perovskite oxide for prospective photovoltaic applications	15:03-15:15
3	Nijhuma Kayal	The effect of bond phase additive and sintering temperature on the properties of mullite bonded porous SiC ceramics	15:16-15:28
4	Gorti Janardhan	Resistance spot weldability of interstitial free steel and high strength low alloy steel	15:29-15:41
5	Harshitha Gandham	Synthesis and characterization of Layered Perovskite Cathode Materials for SOFC Application	15:42-15:54
6	Somnath Kumar	Improvement in castability of Al killed steel by process optimisation	15:55-16:07

Technical Session III–B

7th December 2018

Time: 14:50–16:07

Venue: Seminar Hall 2, TIIR Building

Sl. No.	Author's Name	Title of the Paper	Time
1	Subrata Karmakar	High–temperature Impedance and	14:50-15:02

		Dielectric Studies of Ni _{0.5} Zn _{0.5} WO ₄ Micro Stone Prepared Via Solid-state Route	
2	Manish Oraon	Statistical analysis of Single Point Incremental Forming for the Optimization of Force and Surface Roughness	15:03-15:15
3	Satya Kumar Dewangan	Effect of Double Sided FSW on Mechanical Properties and Corrosion Resistance of 7075 Aluminium Alloy	15:16-15:28
4	Anshuman Das	Comparative study of some machining characteristics during hard turning of alloy steel with untreated and cryotreated cermet inserts	15:29-15:41
5	Venkata Krishnan	Wettability control of copper surface using picosecond laser for enhancing condensation heat transfer	15:42-15:54
6	Pragya Nandan Banjare	Effect of welding parameters on mechanical properties of Al 2024 and Al 7075 friction stir welded joints	15:55-16:07

TEA BREAK: 16:07–16:15

7th December 2018

Venue: TIIR Building Auditorium

Sl. No.	Guest Speaker	Title of the Paper	Time
Keynote 5	Dr. Shankar Datta MEMS division, Solid State Physics Laboratory, Delhi	To be updated soon	16:15-17:00

Technical Session IV–A

7th December 2018

Time: 17:00–18:17

Venue: Seminar Hall 1, TIIR Building

Sl. No.	Author's Name	Title of the Paper	Time
1	Subbalakshmi Yeleswarapu	Tribological and Fatigue Behaviour of Aluminium–Silicon Hypoeutectic Alloys with Melt Treatments	17:00-17:12
2	Manjunath G K	Tensile Toughness Characteristics of Cast Al–Zn–Mg Alloys Processed by Equal Channel Angular Pressing	17:13-17:25
3	Girendra Kumar	Influence of temperature on low cycle fatigue and ratcheting behavior of SA333 Gr-6 C–Mn	17:26-17:38

		steel	
4	Prashant Prakash	Effect of Weld Zone Shape on Microstructure and Tensile Properties in Friction Stir Welding Process	17:39-17:51
5	Dr. Mihir Kumar Sutar	Free Vibration Analysis and Investigation of Mechanical Properties of Un-damped Woven roving Laminated Composite Plate using Different Boundary Conditions	17:52-18:04
6	Cyril Raj	Binary mixture of SS-PCM for Thermal management of electronic cooling system	18:05-18:17

Session IV-B

7th December 2018

Time: 17:00–18:17

Venue: Seminar Hall 2, TIIR Building

Sl. No.	Author's Name	Title of the Paper	Time
1	Shahir Uddin	Structural and Behavioural Analysis of As ₂ Se ₃ , TeO ₂ , SiC, SiO ₂ and Si ₃ N ₄ for Photonic Application	17:00-17:12
2	Soumyajit Das	Microstructural and Joint analysis of ultrasonic welded Aluminum to Cupro-nickel sheets for Lithium-ion battery packs	17:13-17:25
3	Abhishek Kumar	Synthesis of PMN-PT/PDMS Piezoelectric Composite for Energy Harvesting	17:26-17:38
4	Siddharth Sradhasagar	Effect of sintering parameters on microstructure and electrochemical properties of LTP	17:39-17:51
5	Prafulla Sahoo	Investigation on the Influence of Different Additives on Properties of Green Sand Mould	17:52-18:04
6	Anway Maiti	Study on the mechanical properties of bio-waste chicken fiber reinforced epoxy resin composite	18:05-18:17

BANQUET DINNER: 19:30

Venue: The Sarovar Court, Ispat Market, Sector -19, Rourkela

Day 3 : 8th December 2018 (Saturday)8th December 2018**Venue:** TIIR Building Auditorium

Sl. No.	Guest Speaker	Title of the Paper	Time
Keynote 6	Dr. Bhanu Pratap Singh NPL, New Delhi	Carbon Nanotube Network Based Composites for Structural and Energy Storage Applications	9:00-9:45

Technical Session V–A8th December 2018

Time: 10:00–11:17

Venue: Seminar Hall 1, TIIR Building

Sl. No.	Author's Name	Title of the Paper	Time
1	Sushreesejali Mishra	Effect of additives on microstructure and mechanical properties of Si ₃ N ₄ –Mo–Al cermet fabricated by powder metallurgy route	10:00-10:12
2	Sangeetha Sriram	Preparation of superhydrophobic coatings on filter paper for oil–water separation	10:13-10:25
3	Bishnupriya Behera	Synthesis and characterization of Al ₂ O ₃ and SiC reinforced Al–Cu metal matrix hybrid composites	10:26-10:38
4	Priyadarshi Tapas Ranjan Swain	The influence of moisture absorption on the mechanical and thermal properties of chemically treated DPL reinforced hybrid composite	10:39-10:51
5	Vijay Salkapuram	Experimental Investigation of Erosion behaviour of Hybrid Aluminium Alloy Metal Matrix Composites	10:52-11:04
6	Sandeep Kumar	The dispersion of Lead in hypoeutectic Aluminium–Silicon alloys by spray forming process and their characterization	11:05-11:17

TEA BREAK: 11:17–11:20**Technical Session V–B**8th December 2018

Time: 10:00–11:17

Venue: Seminar Hall 2, TIIR Building

Sl. No.	Author's Name	Title of the Paper	Time
1	Shamim Akhtar	CNT Reinforced Laminated Composite under In–Plane Tensile	10:00-10:12

		Loading: A Finite Element Study	
2	Ramesh Nayak	Development of jute, bamboo and glass fiber reinforced polymer hybrid composites for home furniture, infrastructure and automotive applications	10:13-10:25
3	Ananta Prasad Chakraverty	Gamma-Irradiation of E-glass/epoxy composite: A study of its Mechanical and Thermal sustainability	10:26-10:38
4	Kishore Kumar Mahato	Thermal shock effect of nano-TiO ₂ enhanced glass fiber reinforced polymeric composites: An assessment on tensile and thermal behavior	10:39-10:51
5	Bishnu Prasad Nanda	Development of hybrid composites with improved heat insulation capability using short human hair fiber	10:52-11:04
6	Dinesh Rathore	An assessment of mechanical performance of CNF modified glass fiber/epoxy composites under elevated temperatures	11:05-11:17

TEA BREAK: 11:17–11:20

8th December 2018

Venue: TIIR Building Auditorium

Sl. No.	Guest Speaker	Title of the Paper	Time
Keynote 7	Prof. M. P. Gururajan IIT Bombay	Phase field approach to modelling microstructural evolution	11:20-12:00

Technical Session VI–A

8th December 2018

Time: 12:00–13:17

Venue: Seminar Hall 1, TIIR Building

Sl. No.	Author's Name	Title of the Paper	Time
1	Shamim Akhtar	Directional Young's Modulus of SWCNT Reinforced Nanocomposite by Finite Element Analysis	12:00-12:12
2	K Rajasekhara Babu	Multi objective optimization of joining dissimilar AA5083& AA6061 alloys using Friction Stir welding– integrated Taguchi and grey systems approach	12:13-12:25
3	Madhumita Mohanty	Static stability of a tapered two layer elastic beam resting on a variable Pasternak foundation subjected to an axial pulsating load	12:26-12:38
4	Manoj Kumar Pradhan	Analysis and Prediction of Erosion Response of SiC Filled Bio-Fiber	12:39-12:51

		Composites Using Taguchi Method and Neural Computation	
5	Snehangshu Roy	Reduction in Surface Defect in Continuous Cast Slab through Intervention in Process Parameters	12:52-13:04
6	Pradeep Kumar Verma	CFD analysis and effect of different shapes of ribs used inside solar heat exchanger	13:05-13:17

Technical Session VI-B

8th December 2018

Time: 12:00–13:17

Venue: Seminar Hall 2, TIIR Building

Sl. No.	Author's Name	Title of the Paper	Time
1	Deepak Gorai	First Principle Study of Na and P co-doped heptazine based monolayer g-C ₃ N ₄	12:00-12:12
2	Abhilash Purohit	Analysis of erosion wear behavior of LD sludge filled polypropylene composites using RSM	12:13-12:25
3	Deepak Kumar Sahini	Optimization of EDM Process parameters of Thixoformed A356–5TiB ₂ in-situ composites	12:26-12:38
4	Anshuman Kumar	An investigation analysis on Surface characterization and parametric optimization during WEDM of Inconel 625	12:39-12:51
5	Devalingam Santhoshkumar	Effect of Mechanical Properties on Glass Fiber reinforced Composites by Incorporating Nano TiO ₂ at Acidic Environment	12:52-13:04
6	Mahesh Shindhe	In-Plane Low Velocity Impact Behavior of GFRP Laminate	13:05-13:17

LUNCH BREAK: 13:17–13:55

Ground Floor, TIIR Building

8th December 2018

Venue: TIIR Building Auditorium

Sl. No.	Guest Speaker	Title of the Paper	Time
Keynote 8	Prof. Uma Maheswara Rao Seelam, NIT Warrangal	Multiscale characterization of grain boundary diffusion processed Nd-Fe-B permanent magnets	14:00-14:45

Valedictory Session & Felicitation Ceremony: 15.00–15:30

SIGHT SEEING: 16:00 onwards