

Important Instructions

Presentation time: Total time for the presentation will be 15 mins (12 presentation + 3 discussion) for each paper except Plenary and Keynote Lectures. Plenary Lectures will have 40 mins (30 presentation + 10 discussion) and Keynote Lecture will have 30 mins (25 presentation + 5 discussion). All the session chairs and participants are requested to follow the strict time schedule.

Prior to your presentation: Come to the session 15 minutes before the session starts to upload your presentation to the session computer. Your session chair may also have last-minute instructions for your presentation. The presentation computer has **ONLY** a USB port; there is no CD-ROM or other disc drive. You must carry .pptx or .ppt or .pdf file for your presentation.

Certificates: You can collect your participation certificate after your session is over from the reception counter of the SWAYAM 2018.

On spot registration: For the spot registration we will be able to accept cash only, no debit or credit cards please.

Venue: *Workshop:* Computer Centre, BITS Pilani, K. K. Birla Goa Campus, Goa, INDIA
Symposium: Lecture Hall Complex, BITS Pilani, K. K. Birla Goa Campus, Goa, INDIA

Note 1: No requests will be entertained for change in the timing and session of particular presentation.

Note 2: Award sessions will only be conducted for Design Engineering (6 Papers) and Solid (5 Papers) Mechanics categories (IDs written in blue colored font for these papers). In other categories we have not received enough number of papers.

Workshop and Conference Schedule

DAY 1: July 04, 2018		
08:00 - 09:00	Breakfast + Registration	
09:00 - 16:15	Topic 1: Fluid Dynamic simulations using OpenFOAM®	Topic 2: Digital Twin in Life Sciences, Materials and Industrial Benchmarking
09:00 - 12:00	Topic 1: Session I	Topic 2: Session I
12:00 - 13:00	Lunch Break	
13:00 - 16:00	Topic 1: Session II	Topic 2: Session II
16:00 - 16:15	Tea	

1st Symposium and Workshop for Analytical Youth on Applied Mechanics

BITS Pilani, K. K. Birla Goa Campus

July 04 – 06, 2018

DAY 2: July 05, 2018				
08:00 - 09:00	Registration			
09:00 - 10:00	Beginning of Inauguration			
	Welcome note by Conference Chair			
	Address by Prof. Raghurama G, Director, BITS Pilani, K. K. Birla Goa Campus			
	Address by President ISAM, Prof. K.R.Y. Simha			
	Address by Chief Guest, Prof. S. K. Das, Director, IIT Ropar			
	Vote of thanks by Organizing Secretary			
	National Anthem			
10:00 - 10:40	Plenary Lecture: Speaker: Prof. S. K. Das, Chair: Prof. Prasad Patnaik			
10:40 - 11:15	High Tea			
11:30 - 13:00	Session I: CS Chair: Dr. A. K. Upadhyay	Session II: DS-I Chair: Dr. N. Vijayabaskar	Session III: MS-I Chair: Dr. R. K. Annabattula	Session IV: MIS Chair: Prof. Ramasubba Reddy
11:30 - 11:45	14	12	15	20
11:45 - 12:00	22	24	16	55
12:00 - 12:15	38	39	30	60
12:15 - 12:30	41	54	46	80
12:30 - 12:45	42	58	83	81
12:45 - 13:00	65	94	87	113
13:00 - 14:00	Lunch Break			
14:00 - 14:30	Keynote Lecture: Speaker: Prof. B. P. Patel, Chair: Prof. A. Ramaswamy			
14:30 - 15:00	Keynote Lecture: Speaker: Prof. A. Ramaswamy, Chair: Prof. C. L. Rao			
15:15 - 16:45	Session V: CM Chair: Dr. S. Natarajan	Session VI: IM/HSR-I Chair: Dr. R. Sharma	Session VII: DS-II Chair: Prof. A. Ramaswamy	Session VIII*: DE-I Chairs*:
15:15 - 15:30	29	18	64	4
15:30 - 15:45	51	19	66	5
15:45 - 16:00	59	21	76	25
16:00 - 16:15	93	52	86	72
16:15 - 16:30	98	96	97	73
16:30 - 16:45	118	99	53	105
16:45 - 17:00	119	121		120
17:00 - 17:15	Tea			
17:20 - 18:20	Annual General Body Meeting of ISAM			
19:30 - 21:00	Dinner			

CS: Composite Structures DS-I: Dynamics and Stability-I

DE-I: Design Engineering-I CM: Computational Mechanics

IM/HSR-I: Impact Mechanics/High Strain Rate Loadings-I

MS-I: Material Science-I

MIS: Miscellaneous

DE-II: Design Engineering-II

***Award Session in Design Engineering: Chairs: Prof. K.R.Y. Simha, Dr. S. Roy, Prof. Ramasubba Reddy**

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BITS Pilani, K. K. Birla Goa Campus

July 04 – 06, 2018

DAY 3: July 06, 2018				
08:00 - 09:00	Registration			
09:00 - 09:30	Keynote Lecture: Speaker: Dr. S. Natarajan, Chair: Prof. B. P. Patel			
09:30 - 10:00	Keynote Lecture: Prof. Dr. N. Vijayabaskar, Chair: Prof. K.R.Y. Simha			
10:00 - 10:30	High Tea			
11:00 - 13:00	Session IX: BE Chair: Prof. C. L. Rao	Session X: CFD Chair: Prof. Prasad Patnaik	Session XI**: SM-I + DE-II Chairs**:	Session XII: FM Chair: Prof. Anupam Dewan
11:00 - 11:15	3	36	31	17
11:15 - 11:30	8	37	32	26
11:30 - 11:45	9	44	50	49
11:45 - 12:00	13	68	102	61
12:00 - 12:15	57	75	108	77
12:15 - 12:30	67	84	7	78
12:30 - 12:45	92	85	70	79
12:45 - 13:00	123	104	114	82
13:00 - 14:00	Lunch Break			
14:00 - 14:30	Keynote Lecture: Speaker: Prof. S. Vengadesan, Chair: Prof. Anupam Dewan			
14:30 - 15:00	Keynote Lecture: Speaker: Prof. Anupam Dewan, Chair: Dr. S. S. Yadav			
15:15 - 16:45	Session XIII: DE-III Chair: Dr. N. Vijayabaskar	Session XIV: IM/HSR-II Chair: Dr. S. Natarajan	Session XV: SM-II Chair: Prof. C. L. Rao	Session XVI: MS-II Chair: Dr. B. T. Kannan
15:15 - 15:30	10	34	63	56
15:30 - 15:45	11	35	109	62
15:45 - 16:00	23	48	110	71
16:00 - 16:15	43	89	115	88
16:15 - 16:30	45	95	116	90
16:30 - 16:45	47	100	117	103
16:45 - 17:00		107	122	112
17:00 - 17:15	Tea			
17:15 - 18:15	Valedictory Function and Award Distribution			

BE: Biomedical Engineering

CFD: Computational Fluid Dynamics

DE-II: Design Engineering-II

DE-III: Design Engineering-III

FM: Fluid Mechanics

IM/HSR-II: Impact Mechanics/High Strain Rate Loadings-II

SM: Solid Mechanics

MS-II: Material Science-II

****Award Session in Solid Mechanics: Chairs: Prof. K.R.Y. Simha, Dr. S. Natarajan, Dr. N. Vijayabaskar**

Session I: CS: Composite Structures

14	Nonlinear static analysis of shallow panels on rectangular plan-form. Rajendra Bahadur, A.K. Upadhyay and K.K. Shukla
22	Static Response of CNT Reinforced Composite Plates: Isogeometric Analysis. Ashish Kumar Singh and Anindya Bhar
38	Hygrothermal Nonlinear Static Analysis of Laminated Composite Skew Plates. Ashish Pandey and K.K. Shukla
41	Buckling of laminated composite plates using IHSdT subjected to in-plane arbitrary loads. Honey Neeraj, Ritu Raj Rajpoot, Neeraj Grover and Kishore Khanna
42	Deformation characteristics of functionally graded plates using a non-polynomial shear deformation theory. Ritu Rajpoot, Honey Neeraj, Neeraj Grover and Kishore Khanna
65	A zigzag theory based quadrilateral element for the analysis of laminated shells containing delaminations. Adnan Ahmed and Santosh Kapuria

Session II: DS-I: Dynamics and Stability-I

12	Methodology for vibration isolation of snorkel duct. Yeshwantha Kumar, Rammohan B, Kishan Sreenath and Bhargav Varanasi
24	Dynamics of Piezoelectric Cantilevered Beam at higher bending mode for wind Energy Harvesting. Ravneet Singh and Ashish Purohit
39	Vibration suppression in metamaterials with the aid of viscoelastic inserts. Hayalam Akshay Kumar, Venkata Ramana Reddy, Vinay Venkateshwar Rao Sakinalwar and Y. V. D. Rao
54	Fatigue Life Estimation of Welded Joints. K R Ajith, Patel Badri Prasad and Ahmad Suhail
58	Analysis of Resonant Fatigue Testing System. Chetanya Dev Bharadwaj and Badri Prasad Patel
94	Effectiveness of Polyurea Coated Steel Plates in Blast Mitigation in Vehicles. Aagesh Markose

Session III: MS-I: Material Science-I

15	Influence of Filler Dispersion on the mechanical Behavior of ZrO ₂ Dispersed Epoxy Nanocomposites. Sushil Kumar Singh, Abhishek Kumar and Anuj Jain
16	Impact of deformation route over mechanical and magnetic behavior of austenitic stainless steel. Rahul Singh and Abhishek Kumar
30	Experimental study on concrete using plastic and steel as a fiber at various percentages (0% & 5%) and flyash 10% as partial replacement of cement for m35 grade concrete. Uttamraj Sutrave
46	Optimum Material Selection for Total Hip Replacement Implant and a Review On Different Types of Material Available Currently. S Siddharth Kumar
83	Effect of various nano-sized tio ₂ particles on the mechanical properties of aluminium composites. Raghu S, H M Nanjunda Swamy and Sreenivasa M
87	Studies on effective utilization of calcined & uncalcined zeolite in high performance ternary blended concretes. Akhil Khambhammettu, Isha Patel S and Durga Prasad R

Session IV: MIS: Miscellaneous

20	Extraction of biodiesel from vegetable oils and optimisation of engine performance. Manan Agarwal, Nitin Kotkunde and Sandip Deshmukh
55	Energy and Second Law Analysis of Shower Cooling Tower with Variation in Inlet Water to Air Mass Flow Ratio for Industrial Application. Mohammad Zunaid
60	A comparison of damping coefficient of multi-grade oils. Paras Kumar
80	An experimental insight on the Forced forward smoldering combustion. Vinayak Malhotra, Rakshantha Mohan and Bunny Venkat Yeleti
81	Enclosure phenomenon in varying flow forced convection. Vinayak Malhotra, Ribhu Bhatia and Sambit Supriya Dash
113	Sub Grade Stabilization of Soil using Enzyme. Mane S R Rohith

Session V: CM: Computational Mechanics

29	Towards an Interaction Based FE for Large Deformation Adhesive Contacts. Suprateek Roy and Narayan K. Sundaram
51	Study of Crack Propagation using Finite Element Methods. Karthik Ananthakrishnan and Dr. Dhanumjaya Palla
59	Crack Growth Analysis of a Homogeneous Plate in the Presence of Defects using Extended Isogeometric Analysis. Vansh Bedi, Gagandeep Bhardwaj and Jaswinder Saini
93	Finite Element Analysis of Nonlinear Second-order Strain Gradient Kirchhoff Plate. Bishweshwar Babu and B. P. Patel
98	DVC and Fabric analysis of Trabecular bone. Anurag Kumar Singh
118	Evaluation of fracture parameters by coupling the edge based smoothed finite element method and the scaled boundary finite element method. M. Surendran, A. L. N. Pramod and S. Natarajan.
119	Isogeometric analysis for acoustic scattering. Shaima Magdaline Dsouza, Stéphane PA Bordas, Tahsin Khajah and Sundararajan Natarajan.

Session VI: IM/HSR-I: Impact Mechanics/High Strain Rate Loading-I

18	A numerical investigation into the collapse behavior of thin walled grooved tubes under axial impact. Ranjeet Nayak, Sangharsh Kumar Singh, A.K. Upadhyay and Ramesh Pandey
19	Simulation and analysis of light weight bullet proof patka. Mohd Shivali, Ashutosh Kumar Upadhyay and Karunesh Kumar Shukla
21	Mechanical Behaviour of Polyurethane Foam under Quasi-Static and Repeated Impact Loading. Amit Rex and Ashutosh Upadhyay
52	Micro Inertia Driven Entropy Based Damage Evolution for Polycrystalline Metals Under High Strain Rate. Noushad Bin Jamal and Lakshmana Rao C
96	Impact Resistance of Polyurea Backed Steel Materials by Izod Impact Test. Gaurav Mishra, Srinivas K and Kalyan Subramanyam
99	Effect of Polymer Foam on Car Stiffness Beams in Case of Lateral Impact. Shivam Agarwal, Sanjay Toshniwal, Vinay Kumar and Lakshmana Rao
121	Force Networks in Compacted Polydisperse Granular Assemblies. Raghuram Karthik Desu and Ratna Kumar Annabattula

Session VII: DS-II: Dynamics and Stability-II

64	Numerical analysis on controlling the post buckling behaviour of cylindrical shells using mode splitting. Manoj Kumar Hilalpуре, Rathnagiri Sairam Kaushik and Sandeep Jose
66	Stability of plates with cut-outs subjected to partial edge loading. Vishvam Panchariya, Bharat Lohar and Kamlesh Kulkarni
76	Influence of Boundary Conditions on Linear & Nonlinear Periodic Response of Laminated Composite Plates. Ahmad Saood and Arshad Khan
86	Modelling of Cyclic Electromechanical response of PVDF. Harish Lambadi and Lakshmana Rao Chebolu
97	Sh-wave propagation in a viscoelastic sandy layer over a heterogeneous half-space. Akanksha Srivastava, Amares Chattopdаhyay and Abhishek Kumar Singh
53	Active buckling control studies on columns using equivalent force model as piezoelectric actuators. Sairam Kaushik, Manoj Kumar and Sandeep Jose

Session VIII: DE-I: Design Engineering-I

4	Topology Optimization of Rotating Mechanical Members. Lakshmi Srinivas G, Joshua Amrith Raj C and Dr. Arshad Javed
5	Numerical simulation and optimization of micromixer performance. Lanka Tatarao, K Aravind, Dr. Arshad Javed and Dr.Satish Kumar Dubey
25	Autonomous Dental Implant Robot. Shantan Kumar Padisala, Kamal Poluri, Venkata Daseswara Rao Yendluri and Aivelu Manga Parimi
72	Dynamic Response of Composite Laminates. Amruth Chinnappa, Mukil Vannan, Goutham Thirumalesh and Rammohan B
73	Estimation of Leak in Elastomeric Seals. Kambhammettu Sri Krishna Sudhamsu, Lakshmana Rao C and Abhijit Deshpande
105	Analysis of Redesign for Conventional Tool Box using Design for Manufacturing and Assembly Approach. Shudhendu Mishra, Mriganka Saikia, Nitin Kotkunde and Navneet Khanna
120	Stochastic scaled boundary finite elements for equations with uncertain material parameters. Tittu Varghese Mathew, A.L.N. Pramod and S. Natarajan.

Session IX: BE: Biomedical Engineering	
3	Numerical Simulation of Clot Movement Inside Patient Specific Brain Blood Vessels. Varun Karulkar, Sreenivas Venguru and Shyam Sunder Yadav
8	Self-rolling of bio-polymer films into tubular geometries. Rajesh Kumar Meena, Raghunandan Pratoori, Pijush Ghosh and Ratna Kumar Annabattula
9	Effect of Surface Tension on the Self-Folding Behavior of Smart Biopolymers. Raghunandan Pratoori, Rajesh Kumar Meena, Pijush Ghosh and Ratna Kumar Annabattula
13	Study of comprehensive aspects of recent designs of Laparoscopic Surgery Forceps. Mriganka Saikia, Daseswara Rao Yendluri, Ram Chandra Murthy Kalluri and Parameshwaran Rajagopalan
57	Analysis of EEG NeuroFeedback using Brain Machine Interface. Kiran Waghmare
67	A 1-Dimensional model for blood flow in compliant blood vessels. Md. Hasan, B. P. Patel and S. Pradyumna
92	Risk Assessment of Patient-Specific Femur under Critical Loads. Sriram K, Suhail Ahmad and Puneet Mahajan
123	A Visual Spelling System Using SSVEP Based Brain Computer Interface with VOG Integration. Saravanakumar D, Ramasubba Reddy M

Session X: CFD: Computational Fluid Dynamics	
36	Selection of suitable mesh for simulation of a Trapezoidal microchannel heat sink with different fluids. Chirag Deshpande, Shreyas Barapatre, Nishita Giri, Gaurav Mewani, Divya Mishra, Abhilash Tilak and Dr. Ranjit Patil
37	Selection of suitable mesh for simulation of a Rectangular microchannel heat sink with different fluids. Nihal Gupta, Soumya Sharma, Saumik Jaiswal, Anchit Ahuja, Rahul Chavan, Abhilash K. Tilak and Ranjit S. Patil
44	Effect of Inlet design parameters of a Cyclone Separator on Fluid Dynamics Characteristics. Lakshya Agarwal, Meet Modi, Robin Singh Chib, Keval Parikh, Sachin Laphishetty, Mahesh Dasar and Ranjit S. Patil
68	Study of Ship Airwakes Characteristics at Different Cross Wind Conditions. Anand Sangwan, Shrish Shukla, Sidh Nath Singh and Amit Gupta
75	Numerical Investigation of Ship Airwakes Interaction with Helicopter Fuselage. Ganesh Mulani, Shrish Shukla, Sidh Nath Singh and Sawan Suman Sinha
84	Jet Impingement Heat Transfer on Flat and Ribbed Surfaces. Anuj Kumar Shukla and Anupam Dewan
85	Domain Size Effect for Computational Fluid Dynamics Modeling of Cylinder. Rishav Rajora, Srinivas Veeravalli and Suhail Ahmad
104	Numerical Study of Acoustic propagation in an Expansion Chamber. Amanpreet Singh and Ashish Purohit

Session XI: DE-II: Solid Mechanics-I + Design Engineering-II	
31	Application of Embedded Element Approach to Nanostructure of Bone. Abhilash Awasthi, Rajneesh Sharma and Rajesh Ghosh
32	Flutter Suppression of Glass/Epoxy Composite Wing Embedded with SMA. Mallikarjuna, Rammohan.B and Kiran M
50	Numerical Implementation of Welding Residual Stresses using Mapping Technique. Sai Deepak Namburu, Lakshmana Rao Chebolu, Raghu V Prakash, Sasikala G and Krishnan S A
102	Effects of Height Variation on Impact Force and Stress Waves in Shirodhara. Jeevitha G, Rahul Dubey, Sudhamsu Srikrishna, Swathika M and Lakshamana Rao. C
108	Droplet Impact for Various Dripping Condition Falling from Different Height. Swathika M, Lakshmana Rao C and Venkatesh Balasubramanian
7	Damage detection of beam using EMI Technique. Piyush Yadav, Arun Tangirala and Lakshmana Rao
70	Fatigue Creep Interaction Through Continuum Damage Mechanics. Sumit Kumar and B. P. Patel
114	Formula generation for suspension analysis using lotus shark. Divyanshu Vyas, Ankit Dubey, Pallav Mathur and Mohit Jangid

Session XII: FM: Fluid Mechanics	
17	Computational Analysis of a Low Head Francis Turbine Draft Tube for Varying Load Conditions. Gyanendra Tiwari, Vishnu Prasad and Vivek Kumar Patel
26	Effect of Twisted Tape on Bend Erosion. Yogendra Yadawa, Jitendra Kumar and Vivek Kumar Patel
49	Effect of Slot Area on the Performance of Conical Self-Entraining Ejector Diffuser. Lakhvinder Singh, S.N. Singh and Sawan Suman Sinha
61	Linear Stability of a Shear Imposed Falling Film. Gaurav Joshi, Farooq Ahmad Bhat and Arghya Samanta
77	Combustion Characteristics of An Array of Energized Flames. Vinayak Malhotra, Chitresh Prasad, Arvind Ramesh and Aditya Virkar
78	Laser Induced Combustion. Vinayak Malhotra, Akshita Swaminathan, Swati Shridhar Iyer and Anamika Rajendran
79	Thermoacoustic effects on unstable premixed flames. Vinayak Malhotra and Sayantan Saha
82	On the role of Acoustic Bass in premixed flame combustion. Vinayak Malhotra and Tathagat Sarangi

Session XIII: DE-III: Design Engineering-III

10	Synthesis of Epicyclic Gear Trains using spanning trees. Manish Rudraraju and Dr. Daseswara Rao Yendluri
11	Algorithm to reduce the Number of Epicyclic Gear Trains for Isomorphism Test. Sai Abhishek Siddhartha Namburu, Nithin Reddy Nareddy and Dr. Daseswara Rao Yendluri
23	Design and Analysis of Missile Tail Fin. Vamsi Krishna Yenumula, N Vinay, R Sumar Sri, V Harish Reddy and Tushar Sharma
43	Design and optimization of Single Speed Two-Step Reduction Gearbox. Akshat Pagey, Robin Singh Chib, Lakshya Agarwal and Ranjit S. Patil
45	Design and Optimization of Wheel Assembly and Suspension Assembly. Robin Singh Chib, S Siddharth Kumar, M Kaushik Reddy, Krishna Kamdi, Aakash Rajawat and Ranjit S. Patil
47	A comparative study of strain sensing characteristics of intrinsically conducting polymers. Indu Chanchal Polpaya, Lakshmana Rao C and Susy Varughese

Session XIV: IM/HSR-II: Impact Mechanics/High Strain Rate Loading-II

34	Structural Assessment of Polyurea Coated Materials for Armed Personal Vehicles. Srinivas K and Lakshmana Rao C
35	Assessment of Impact Strength of Rotationally Moulded products: An alternative approach. Narayanan Menon, Gaurav Seth, Kadamb Gupta, Pozhil S N and Sachin Waigaonkar
48	Response of Polyurea: Coating and Sandwich Structured Steel Plate in Blast Application. Amit Gupta, C.Lakshmana Rao and Swathika M
89	Computational Modelling of Ballistic Impact on Body Armor. Md Quaiyum Ansari
95	Mitigation of Secondary Blast Effects Using Tubular Structures. Noushad Bin Jamal M, Parthasarathy S and Xavier M S
100	Numerical analysis of Bat and ball impact in Cricket. Ashish Pandey, Sarfaraz Shaik and C. Lakshmana Rao
107	Determination of Load Point Displacement of 3-point bend specimen under high strain rate. Anoop Kumar Pandouria, Purnashis Chakraborty, Amit Kumar, Danish Iqbal and Vikrant Tiwari

Session XV: SM: Solid Mechanics-II

63	Thermal stresses in quenching of moving plate by array of jets. Suresh Babu Gopalkrishna, Gaurav A Kulkarni, Ashok Kumar Nallathambi and Eckehard Specht
109	Study of Strain Hardening Exponent for Al-6061 for different strain rate for monotonic loading. Dipti Singh
110	Torsional wave propagation in a viscoelastic functionally graded orthotropic overlying inhomogeneous half-space. Deepak Pandit and Santimoy Kundu
115	Linearly consistent one-point integration rule over star convex polytopes. Amrita Francis and Sundararajan Natarajan.
116	Corrected and stable eXtended Finite Element Method for hyperelastic materials. Chintan Jansari, Sundararajan Natarajan and Krishna Kannan.
117	Stress Diffusion Interactions in an Isotropic Elastic Medium: Effect of External Loading. Hirshikesh, Ratna Kumar Annabattula and Sundararajan Natarajan.
122	Discrete Wavelet Transform Based ERD/ERS Patterns For The Motor Imagery Brain Computer Interface. Saravanakumar D, Ramasubba Reddy M

Session XVI: MS-II: Material Science-II

56	Experimental analysis of process parameters for surface roughness using response surface methodology. M S Niranjana
62	Influence of water cooling on stresses in DC casting of aluminum alloys. Subash Ramasamy, Gaurav A Kulkarni, Pavan Kumar Penumakala, Ashok Kumar Nallathambi and Eckehard Specht. Vikram Singh Rathore, Badri Prasad Patel and Suhail Ahmad
71	Residual Stress Analysis of Under Water Welded Vessels
88	Studies on effective utilization of copper slag fine aggregate in high strength concretes. Sravan Kumar Siliveri, Isha Patel S and Durga Prasad R
90	Literature review on CNT nanofluid preparation and thermal conductivity enhancement in carbon nanotube nanofluids. Chetan Kushwaha
103	Feasible study on geocells, geogrid and geotextiles as georeinforcement in subgrade. Venkatesh Gajula, Ramu Penki and Ramesh Adepu
112	Microstructure evolution as a function of annealing temperature in a cold rolled magnesium alloy Mg - 6 wt% Al - 3 wt % Sn (AT63) alloy. Gaurav, Jayant Jain and Rajesh Prasad