NSRD 2016 Programme Schedule

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Day-1 January 07, 2016						
8.30 am to 9.30 am 9.30 am to 10.45 am	Registration					
	Inaugural function					
9.30 am 9.35 am	Invocation					
9.35 am	Welcome					
9.45 am	Lighting the lamp					
9.50 am	About the symposium					
9.55 am	Introducing chief guest Address by chief guest					
10.15 am	Felicitating guest of honor					
10.20 am	Director address					
10.40 am	Vote of thanks					
10.45 am to 11.00 am	High tea					
	Keynote session					
11.00 am to 11.30 am	"Rotors from Ancient Times"					
	Invited Talk by Prof. J.S. Rao,					
	Kumaraguru College of Technology, Coimbatore					
11.30 am to 12.00 pm	Technical Session-I(Chaired by Prof. J.S.Rao)					
12.00 pm to 12.30 pm	"Non-contact power transmission device-An					
	exploratory study and possible practical					
	applications"					
	Invited talk by Prof. V. Arun Kumar,					
	AIT, Bangalore					
12.30 pm to 1.15 pm	Technical Session-II(a)					
	(Chaired by Prof. V. Arun Kumar)					
1.15 pm to 2.00 pm	Lunch break					
2.00 pm to 2.30 pm	Technical Session-II(b)					
2.30 pm to 3.00 pm	"Ball bearing diagnosis: Detection of damaged					
	rolling elements"					
	Invited talk by Prof. A.K. Darpe,					
3.00 pm to 3.45 pm	IIT-Delhi, New Delhi					
3.00 pm to 3.45 pm	Technical session-III(a) (Chaired by Prof. A. K. Darpe)					
3.45 pm to 4.00 pm	Tea Break					
4.00 pm to 4.30 pm	Technical Session-III(b)					
4.30 pm to 5.00 pm	"Last Stage Steam Turbine Mistuned Bladed Discs:					
4.00 pm to 0.00 pm	Free Vibration Analysis"					
	Invited talk by Prof. Rzadkowski,					
	Polish Academy of Sciences					
	Fiszera 14, 80-952 Gdańsk, Poland					
5.00 pm to 5.45 pm	Technical Session-IV(Chaired by Prof. Rzadkowski)					
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Day-2 January 08, 2016						
9.00 am to 9.30 am	"Application of Active Magnetic Bearings for					
	Rotor-System Condition Monitoring"					
	Invited talk by Prof. R. Tiwari,					
	Indian Institute of Technology ,Guwahati					

9.30 am to 10.45 am	Technical Session-\//a\				
9.50 am to 10.45 am	Technical Session-V(a) (Chaired by Prof. R. Tiwari)				
10.45 am to 11.00 am	Tea break				
10.45 am to 11.00 am	Tea Dieak				
11.00 am to 11.30 am	"The Rail - Wheel Dynamics Related to				
11.00 am to 11.50 am	Derailments"				
	Invited talk by Prof. P. K. Sarkar,				
11.30 am to 12.15 pm	I.S.M., Dhanbad				
11.50 am to 12.15 pm	Technical session-V(b) (Chaired by Prof. P. K. Sarkar)				
12.15 pm to 12.45 pm	"Evaluation of Alternate Materials for High				
12.13 pm to 12.43 pm	Temperature Foil Bearing" Invited talk by Dr. S. Jana,				
	NAL, Bangalore				
12.45 pm to 2.00 pm	Lunch break				
12.45 pm to 2.00 pm	Lunch bleak				
2.00 pm to 2.30 pm	"Dynamic Analysis of Wind Turbine Drive Train:				
	Some Recent Studies" Invited talk by Prof. A.S. Sekhar,				
	IIT-Madras				
2.30 pm to 3.45 pm	Technical session-VI(a)				
2.00 pm to 0. 10 pm	(Chaired by Prof. A. S. Sekhar)				
3.45 pm to 4.00 pm	Tea break				
4.00 pm to 4.30 pm	'Viscoelastic studies in rotordynamics' by				
	Prof. H. Roy, NIT Rourkela				
4.30 pm to 5.15 pm	Technical session-VI(b) (Chaired by Prof. H. Roy)				
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6.15 pm to 8.15 pm	Cultural program				
8.30 pm to 9.30 pm	Dinner				
Day-3 January 09, 2016					
9.00 am to 9.30 am	Invited talk by Prof. M. Tiwari,				
	IIT-Patna				
9.30 am to 10.45 am	Technical session-VII				
	(Chaired by Prof. M. Tiwari)				
10.45 am to 11.00 am	Tea break				
11.00 am to 11.30 am	"Mathematical techniques to solve problems				
	involving solid deformations"				
	Invited talk by Prof. Rajasekhar,				
	IIT- Kharagpur				
11.30 am to 12.45 am	Industry Session on Rotordynamic products				
	Lecture from Micro-Pro				
12.45 am to 2.00 pm	Lunch break				
2.00 pm to 3.45 pm	NSRD Committee Meeting				
3.45 pm to 4.00 pm	Tea break				
4.00 pm to 4.30 pm	Valedictory and certificate distribution				

Detailed Schedule of Technical Sessions

Technical session-I (12.00 pm-12.45 pm)	Rotors balancing and classical approaches				
N. Moharana and	Pap-25: Balancing requirements for high speed rotors of				
R.K. Satpathy	modern fighter class aero-engine.				
Technical session-II(a) (Day 1 12:30 pm-1:15 pm)	Aeroengine rotors and maintenance				
Asish Kumar Panda and Rajiv Tiwari.	Pap-3: Prediction of cavitations in centrifugal pumps using Support vector machine algorithms based on vibration measurements				
Ajit Kumar, Iqbal Momin, Giridhar Ramakrishna, Pravin Kamanat and Suresh Kumar	Pap-5: Maneuver Load analysis of a twin spool aero gas turbine engine rotor system using SAMCEF software.				
Purushottam Gangsar and Rajiv Tiwari	Pap-17: Multiple fault diagnosis of induction motor based on Gram-Charlier Orthogonal expansion coefficients of vibration signal using SVM algorithm				
Technical Session-II(b) (Day 1 2:00 pm-2:30 pm)	Aeroengine rotors and maintenance				
Thimothy Harold Gonsalves	Pap-26: Dynamic behaviour of the composite shaft rotor system of an aero gas turbine engine.				
V.V.S. Nikhil Bharadwaj	Pap-30: Design and analysis of hybrid UAV				
Technical Session-III(a) (Day 1 3:00 pm-3:45 pm)	Bearing systems and Condition monitoring				
Jignesh P. Patel and Sanjay H. Upadhyay	Pap-12: Predictions of combined localized defects in roller bearings by using wavelet packet transform				
Dhananjay Kumar, Dr. Somnath Sarangi and Dr. Mayank Tiwari	Pap-23: Vibrations in rolling element bearings caused by surface defects				
Technical Session-III(b) (Day 1 4:00 pm-4:30 pm)	Bearing systems and Condition monitoring				
Maheedhara Reddy Gundam, Diwakar Reddy V. (abstract only) Rahul Singh	Pap-10. Theoretical and experimental investigations on dimensional anal1`ysis of rolling bearing elements by using Buckingham PI: Theorem and Taguchi Method Pap-9: Dynamic identification of foil bearing rotor system				
M.Rajasekhar	Pap-8: Dynamic modeling of rotors mounted on ball bearings with elastohydrodynamic point contacts				
Technical session-IV (Day 1 5:00 pm-5:45 pm)	Coupled rotordynamic systems				
Peeus Kumar	Pap-21: Response studies on bladed disk with under- platform dampers				

International Charles	Den 00. Analysis and Ontired mediation of and will exist dis-				
Jakeer Hussain Shaik S	Pap-32: Analysis and Optimal modeling of end-mill spindles				
	for improvising dynamic stiffness using neuro-genetic				
	approach				
	8 th January 2016, Day-2				
Technical session-V(a) (Day 2 9:30 am-10:45 am)	Modeling and identification of rotors				
Soumava Ghosh, Sumanta	Pap-2: Dynamics of accelerating rotors on viscoelastic				
Neogy and Arghya Nandi	supports				
Sanjeev Lambha, Rajiv	Pap-4: Chaos and bifurcation analysis of a flexible rotor				
Verma and Vinod Kumar	supported by coupled stress fluid-film bearing				
Smitadhi Ganguly, Arghya	Pap-7: A state space viscoelastic Timoshenko shaft finite				
Nandi and Sumanta Negoy	element for analysis of rotors				
Rajasekhara Reddy Mutra	Pap-14: Vibration analysis of floating ring journal bearing supported rotor system for turbocharger run/up condition.				
R. Srinath, Abhijit Sarkar	Pap-18: Parametric vibrations in rotating shaft system				
and A. S. Sekhar	. ap aramouro rioranno in rotating orian oyotom				
Technical Session-V(b)					
(Day 2 11:30 am-12:15pm)					
Ritesh Kumar, Akhilendra	Pap-19: Effect of material density on critical speed of a crack				
Singh and Mayank Tiwari	and non-crack rotor using finite element analysis in ANSYS				
Chandan Kumar and	Pap-22: Nonlinear dynamics of unbalanced rigid rotor				
Dr. Somnath Sarangi	supported by long hydrodynamic journal bearing				
Chandrani Guha, Sumanta	Pap.6: Phase field balancing of small rotors on rigid supports				
Neogy and Arghya Nandi	Tap.o. Thase held balanoing of small rolors of rigid supports				
Technical session-VI(a)	Vibration minimization in rotors				
(Day 2 2:30 pm-3:45 pm)	Vibration infinitization in rotors				
Pravin Kamanat and	Pap-31: Multiple linear regression technique for vibration				
Sivakumar Sadasivan Nair	minimization of an aero gas turbine engine				
Siddappa Bekinal, Kiran D.	Pap-13: Permanent magnet bearings for high speed rotating				
Kattimani, Soumendu Jana	machinery. A review of analytical, FEA and experimental				
and Rutvij Naik	approaches				
Sarthak Rout and	Pap-16: Design and analysis of active magnetic bearings for				
Suraj Kumar Behera	high speed rotor				
Caraj Ramar Bonora	Thigh speed reter				
Technical Session-VI(b)					
(Day 2 4:30 pm-5:15 pm)					
Balaji Sankar, Santosh	Pap-20: Analysis of active magnetic thrust bearing under				
Kumar, Brijeshkumar Shah	varying load conditions				
and Soumendu Jana	Talying load conditions				
V V Kondaiah, Jagu S Rao	Pap-28: Optimum air gap for minimum power loss of an				
and V V Subba Rao	active magnetic thrust bearing.				
and v v Subbarrao	9 th January 2016, Day-3				
Technical session-VII					
(Day 3 9:30 am-10:45 am)	-				
Ritesh Kumar,	Pap-15: Numerical analysis of an oscillator with nonlinear				
Mayank Tiwari and	clearance using smoothening function				
Akhilendra Singh					
Ratnadeep Pramanik,	Pap-1: Stability analysis of a simultaneously precessing and				
Arghya Nandi and	nutating beam with corresponding angular accelerations				
Sumanta Neogy					