



報道機関各位

熊本大学

3rd INTERNATIONAL ENGINEERING SYMPOSIUM (IES 2013)について

熊本大学では、インドのカルナタカ国立工科大学と共催で、3rd INTERNATIONAL ENGINEERING SYMPOSIUM (IES 2013)を開催いたします。本シンポジウムは、平成23年度よりインド、ベトナム及び国内の研究者を招いて毎年開催している国際シンポジウムで、対象分野は機械工学、材料工学、土木、建築、電気、電子、応用化学など多岐に渡ります(使用言語は全て英語)。

過去2年間は海外から毎年60名が参加しておりましたが、海外の研究者の関心が高まり、今回は87名が海外から参加されます。4日間の熊本滞在中に、熊本大学の魅力、熊本の魅力、日本の素晴らしさを感じてもらえることを期待しています。つきましては、当日の取材方よろしくお願いたします。

○日 時 : 平成25年3月4日(月)～6日(水)

○場 所 : 熊本大学黒髪南キャンパス 工学部百周年記念館及び工学部2号館
(熊本市中央区黒髪2丁目39番1号)

○スケジュール(詳細は別紙を参照ください)

3月4日(月) 10:00 受付

10:30～11:00 研究科長挨拶、大学紹介

11:00～11:30 基調講演1

12:00～13:00 基調講演2

14:00～17:00 キャンパスツアー及び研究室訪問

3月5日(火) 09:30～11:00 基調講演及び分科会

11:30～13:00 分科会

14:00～15:30 分科会

16:00～17:15 分科会

3月6日(水) 09:00～17:00 フィールドビジット(水前寺公園、熊本城、阿蘇火口)

○熊本大学大学院自然科学研究科・同X-Earth Center 及び
カルナタカ国立工科大学(インド)共催

【担当】熊本大学大学院自然科学研究科先端機械システム講座
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INTERNATIONAL ENGINEERING SYMPOSIUM 2013 (IES2013)

March 4-6, 2013, Kumamoto University, Kumamoto, Japan

PROGRAMME SCHEDULE

Venue: 100th Anniversary memorial Hall (March 4)
Faculty of Engineering, Building No.2 (March 5)

March 4, 2013 (Monday)

10:00 – 10:30	Registration
10:30 – 11:00	Opening Session
11:00 – 11:30	Keynote lecture (K1)
11:30 – 12:00	Tea Break
12:00 - 13:00	Keynote lectures (K2)
13:00 – 14:00	Lunch
14:00 – 17:00	Campus Tour & Laboratory Visits
17:00 – 17:30	Free Time
17:30 – 19:00	Welcome Reception

March 6, 2013 (Wednesday)

9:00 – 17:00	Field visits
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March 5, 2013 (Tuesday)

9:30 – 11:00	Kenote Lecture & Technical Sessions (M1,M5,C1,C5)
11:00 – 11:30	Tea Break
11:30 - 13:00	Technical Sessions (M2,C2,C6,B1)
13:00 – 14:00	Lunch
14:00 – 15:30	Technical Sessions (M3,C3,E1,A1)
15:30 – 16:00	Tea Break
16:00 – 17:15	Technical Sessions (M4,C4,E2)
17:00 – 17:30	Free time
17:30 – 19:00	Symposium Dinner

(Lunch & Dinner Venue - FORICO Cafeteria)

March 4, 2013 (Monday)

Hall: 100th Anniversary Memorial Hall

10:00 – 10:30	Registration		
10:30 – 11:00	Opening Session	Opening Address - <i>Professor Kazuki Takashima, Dean, Graduate School of Science & Technology (GSST), KU</i> Introduction of GSST – <i>Professor Mitsuyo Kishida, GSST, KU</i> <i>Group Photo</i>	Session chairperson Shuichi Torii (Convener)
11:00 – 11:30	Keynote Lecture (K1)	Geotechnical Engineering with Geosynthetics - An Overview <i>R Shivashankar, Professor, NITK Surathkal, India</i>	
11:30 – 12:00	Break		
12:00 - 13:00	Keynote lectures (K2)	Non-invasive techniques for fault diagnosis of Induction Machines <i>Vinod V Thomas, Director, Manipal Institute of Technology, Manipal University, India</i> Densification and Mechanical Properties of Hot Forged and Sintered AISI 4340 P/M Steel <i>G Ranganath, Principal, Adhiyamaan College of Engineering, Tamil Nadu, India</i>	
13:00 – 14:00	Lunch		

March 5, 2013 (Tuesday) Faculty of Engineering : Building No. 2 Room No.231 (Room A)

9:30 – 11:00	Technical Session Mechanical (M1)	<p>Investigations on ALFA Composite Produced by Powder Metallurgy Route <i>Shivaprakash Y M, Manipal Institute of Technology, Manipal University, India</i></p> <p>Study on Chip-morphology in Turning of Ti-6Al-4V Alloy Under High Pressure Neat oil and Soluble oil <i>Gowri Shankar M C, Manipal Institute of Technology, Manipal University, India</i></p> <p>Aluminising of Mild Steel Using Al-11Si-1.2Cu Baths - <i>K Udaya Bhat, NITK Surathkal, India</i></p> <p>Measurement of Hardness for Soft Materials by Using Piezoelectric Tactile Sensor <i>Kun-Feng Lu, Southern Taiwan University of Science and Technology, Taiwan</i></p> <p>Single and multilayer polyvinylidene fluoride piezo film for force sensing <i>Ya-Wei Chen, Southern Taiwan University of Science and Technology, Taiwan</i></p> <p>Fabrication of large-area nanostructures on glass substrate by using a template of anodization aluminium oxide - <i>Wen-Yu Lee, Southern Taiwan University of Science and Technology, Taiwan</i></p> <p>Evaluation of properties of different materials used in joint prosthesis <i>Akshay Varambally B, NITK Surathkal, India</i></p>
11:00 – 11:30	Break	
11:30 – 13:00	Technical Session Mechanical (M2)	<p>Effects of Aging Treatments on the Microstructures of the Fe-10Mn-8Al-1C Alloy <i>Wu Chung-Chun, Southern Taiwan University of Science and Technology, Taiwan</i></p> <p>Diffuser Film with Random Microlens Array Using Roll-to-Roll Process <i>Yung-Shin Chang, Southern Taiwan University of Science and Technology, Taiwan</i></p> <p>Process Parameters Optimization Using Taguchi and RSM to Minimize the Damage in the Drilling of GFRP Composites - <i>Murthy B R N, Manipal Institute of Technology, Manipal University, India</i></p> <p>Methodological and Parametric Studies of Machinability of Carbon and Alloy Steels <i>Mohankumar G C, NITK Surathkal, India</i></p> <p>Surface and Dimensional Integrity Studies of Micro Polymer Components Fabricated by Microstereolithography - <i>K Raghavendra, NITK Surathkal, India</i></p> <p>A handheld electric module for selectively concentrating cancerous cells from red blood cells utilizing dielectrophoresis in stepping electric fields - <i>Chun-Ping Jen, National Chung Cheng University, Taiwan</i></p>

March 5, 2013 (Tuesday) Faculty of Engineering : Building No. 2 Room No.231 (Room A)

14:00 – 15:30	Technical Session Mechanical (M3)	<p>A heuristic algorithm for resource constrained project scheduling problem with discounted cash flows <i>Ritwik A, Toc H Institute of Science & Technology, Arakunnam, Ernakulam, India</i></p> <p>Cellular Manufacturing and Flexible Machines – A Case Study on Machine Tool Spindle Production <i>Babu John, Toc H Institute of Science & Technology, Arakunnam, Ernakulam, India</i></p> <p>Study on Machinability of Ti50Ni46Cu4 Ternary SMA using Wire EDM <i>M Manjaiah, NITK Surathkal, India</i></p> <p>The New Biodiesohol for Single Cylinder Diesel Engine <i>Subongkoj Topaiboul, Rajamangala University of Technology, Thailand</i></p> <p>Development of Novel Design the Solid Tire Performance Testing System <i>Niwat Moonpa, Rajamangala University of Technology, Thailand</i></p> <p>Effect of Staggered Splitters on the Flow Characteristics in a Centrifugal Fan – A Numerical Study <i>Madhwesh N, Manipal Instiute of Technology, Manipal University, India</i></p> <p>Active vibration isolation using a voice coil actuator with absolute velocity feedback control <i>Yun-Hui Liu, Southern Taiwan University of Science and Technology, Taiwan</i></p>
15:30-16:00	Break	
16:00-17:15	Technical Session Mechanical (M4)	<p>Classification of soldering induced damages to Si solar cell by electroluminescent and eddy current technologies - <i>Keh-moh Lin, Southern Taiwan University of Science and Technology, Taiwan</i></p> <p>Three Dimensional CFD analysis of Solar Air Heater for Enhancement of Thermal Performance using Surface Corrugation - <i>K Vasudeva Karanth, Manipal Instiute of Technology, Manipal University, India</i></p> <p>Numerical Analysis of a Convex Corrugated Solar Absorber Plate Configuration for Enhanced Heat Transfer Characteristics - <i>Manjunath M S, Manipal Instiute of Technology, Manipal University, India</i></p> <p>The Effect of Amylose Ratio on the Mechanical Properties of Rice Grain <i>N-S Liou, Southern Taiwan University of Science and Technology, Taiwan</i></p> <p>Design, Analysis, and Control of a Cascaded Piezoelectric Actuated Two-Degrees-of-Freedom Precision Stage - <i>Kuo-Shen Chen, National Cheng-Kung University, Taiwan</i></p>

March 5, 2013 (Tuesday) Faculty of Engineering : Building No. 2 Room No.232 (Room B)

9:30 – 11:00	Technical Session Civil (C1)	<p>Effects of Moisture Condition and Internal Water Movement on Penetration Property of Chloride Ion in Mortar <i>Kentaro Koike, Kagoshima University, Japan</i></p> <p>Experimental Study on Reactivity of Pyroclastic Flow Deposit Called Shirasu as Binder in Mortar and Geopolymer - <i>Dhruva Narayana Katpady, Kagoshima University, Japan</i></p> <p>Gamma Radiation Shielding Characteristics of Concrete Mixes - The State-of-Art <i>Santhoshkumar M, NITK Surathkal, India</i></p> <p>Investigations on short term creep behaviour of different types of concretes <i>R Prabhakara, M S Ramaiah Institute of Technology, India</i></p> <p>Proper Orthogonal Decomposition (POD) in Math Modeling <i>K S Babu Narayan, NITK Surathkal, India</i></p> <p>Computational Model for the Transverse Stress Analysis of FGM Plates – An Assessment <i>D T Naveenkumar, NITK Surathkal, India</i></p>
11:00 – 11:30	Break	
11:30 – 13:00	Technical Session Civil (C2)	<p>Studies on the Dynamic Characteristics of Monolithic RC Wall Panels <i>Chethan K, Bangalore University, India</i></p> <p>Seismic response of retrofitted 2D RC frames with masonry infill panels <i>Ravikumara H S, M S Ramaiah Institute of Technology, Bangalore, India</i></p> <p>Seismic Capacity of Frames designed for Earthquake, Wind and Gravity Loadings <i>Prasad S K, Sri Jayachamarajendra College of Engineering, Mysore, India</i></p> <p>Performance appraisal of Retrofit RC frames subjected to Broad band excitation <i>S Suresh Babu, Adhiyamaan College of Engineerin, Hosur, India</i></p> <p>Seismic qualification of Lightning arrester <i>R Ramesh Babu, Central Power Research Institute, Bangalore, India</i></p>

March 5, 2013 (Tuesday) Faculty of Engineering : Building No. 2 Room No.232 (Room B)

14:00 – 15:30	Technical Session Civil (C3)	<p>Accident Analysis of Intermediate Lane Roads in Dakshina Kannada District of Karnataka State, India <i>A U Ravi Shankar, NITK Surathkal, India</i></p> <p>WHITETOPPING – A case study from Bangalore <i>V Ramachandra, UltraTech Cement Ltd, Bangalore, India</i></p> <p>Improving bearing capacity of footings on weak and soft soils <i>J Jayamohan, LBS Institute of Technology for Women, Thiruvananthapuram, India</i></p> <p>Performance of model footing resting on reinforced flyash beds under repeated loads <i>H C Muddaraju, Bangalore University, India</i></p> <p>Influence of rigidity of finite base on stiffness of finite saturated sand stratum <i>MT Prathap Kumar, REVA Institute of Technology and Management, Bangalore, India</i></p>
15:30 – 16:00	Break	
16:00 - 17:15	Technical Session Civil (C4)	<p>Strategy of Small Contractors in Bidding – A case study <i>Raghavendra K. Holla B, Manipal Institute of Technology, Manipal University, India</i></p> <p>Sustainable construction using High volume flyash self-compacting concrete Blended with recycled concrete aggregates - <i>Gopinatha Nayak, Manipal Institute of Technology, Manipal University, India</i></p> <p>Micro-tremor Response of Buildings in high Seismic Areas: A Case Study on RC Framed Building in Chandigarh, India. Part I: Comparison between Permanent and portable sensors <i>D Hima Chandan, International Institute of Information Technology, Hyderabad, India</i></p> <p>Micro-tremor Response of Buildings in high Seismic Areas: A Case Study on RC Framed Building in Chandigarh, India Part II: Response of building <i>B Narender, International Institute of Information Technology, Hyderabad, India</i></p> <p>Performance based design of piping systems subjected to pressure and earthquake loading <i>G R Reddy, Bhabha Atomic Research Centre, Mumbai, India</i></p>

March 5, 2013 (Tuesday) Faculty of Engineering : Building No. 2 Room No.234 (Room C)

9:30 – 11:00	Technical Session Civil (C5)	<p>Removing of High Nitrogen Concentration from Synthesis Wastewater by Single-Stage Using Anammox and Partial Nitritation (SNAP) with Acrylic Fiber Fabrics as Biomass Carrier <i>Hoang Duy Tran, Ho Chi Minh City University of Technology, Vietnam</i></p> <p>Nitrogen Removal from Synthesis Wastewater which High Nitrogen Concentration by Single-Stage Using Anammox and Partial Nitritation (SNAP) with BioFix as Biomass Carrier <i>Thanh Hien Ho, Ho Chi Minh City University of Technology, Vietnam</i></p> <p>Investigating the Effects of Running Factors on the Partial Nitritation for Removing High Nitrogen Concentration from Synthesis Wastewater - <i>Tan Phong Nguyen, Ho Chi Minh City Univ. of Technology, Vietnam</i></p> <p>Defluoridation of fresh water using the process of Electrocoagulation combined with Adsorption <i>Ashwini Wali, BMS College of Engineering, Bangalore, India</i></p> <p>Anoxic ammonia oxidation using oxides of Manganese for ammonia removal from Wastewaters <i>P C Sabumon, VIT University Chennai Campus, India</i></p> <p>Pre-treatment of organic composite waste mixtures for enhanced biomethanation <i>Saroj Sundar Baral, BITS Pilani K.K. Birla Goa Campus, India</i></p>
11:00 – 11:30	Break	
11:30 – 13:00	Technical Session Civil (C6)	<p>SUSTAINABLE WATER MANAGEMENT PRACTICES – a need of the hour <i>Ganesh A, Manipal Institute of Technology, Manipal University, India</i></p> <p>Water Sensitive Urban Design : An Insight into the Past - <i>Nishant H Manapure, Manipal University, India</i></p> <p>Aquifer Characterization and Water Quality Investigations of Tropical Aquifer of West Coast of India <i>S S Honnanagoudar , NITK Surathkal, India</i></p> <p>Estimation of Evapo-transpiration for different Seasonal Crops and Horticultural Plantations <i>Shivakumar J Nyamathi, Bangalore University, India</i></p> <p>Estimation of Morphometric Parameters and Runoff using RS & GIS Techniques <i>Ravikumar Alanasiddaiah, Bangalore University, India</i></p> <p>Effect of Spatial Resolution On Soil Erosion Patterns-A GIS Approach - <i>Amba Shetty, NITK Surathkal, India</i></p> <p>Variable Source Area Rainfall – Runoff Modeling: A Case Study on Poondi Basin -Tamil Nadu <i>H S Govardhana Swamy, M S Ramaiah Institute of Technology, Bangalore, India</i></p>

March 5, 2013 (Tuesday) Faculty of Engineering : Building No. 2 Room No.234 (Room C)

14:00 – 15:30	Technical Session Electrical, Electronics, Computer & Related Fields (E1)	<p>Development of Tree-Typed CPW-Fed Dual-Band Ceramic Substrate Antennas <i>Pei-Hsiu Tsai, Southern Taiwan University of Science and Technology, Taiwan</i></p> <p>Design of CPW-Fed Stair-Typed Monopole Ultra Wide Band Ceramic Substrate Antennas <i>Chien-Min Cheng, Southern Taiwan University of Science and Technology, Taiwan</i></p> <p>A mobile phone antenna containing a monopole and two coupled-fed PIFAs for 4G application <i>Wen-Shan Chen, Southern Taiwan University of Science and Technology, Taiwan</i></p> <p>An LTE Mobile Phone Antenna with Planar Structure for 4G System Application <i>Hung-Ying Lin, Southern Taiwan University of Science and Technology, Taiwan</i></p> <p>Neural Network Based Mathematical Models for Gold Price Prediction <i>K Dasharathraj Shetty, Manipal Institute of Technology, Manipal University, India</i></p> <p>Determination of Morphological Features of Cashew Kernel using Regression Modeling <i>Narendra V G, Manipal Institute of Technology, Manipal University, India</i></p> <p>Histogram Equalization based Mean Brightness Preserving and Contrast Enhancement Techniques – A Review <i>Raju A, NITK Surathkal, India</i></p>
15:30-16:00	Break	
16:00 - 17:15	Technical Session Electrical, Electronics, Computer & Related Fields (E2)	<p>Interconnect Delay Reduction in High Speed Clock Networks using CRLH Structure <i>M S Bhat, NITK Surathkal, India</i></p> <p>A 0.5 V Successive Approximation Analog to Digital Converter <i>Kalpna G. Bhat, NITK Surathkal, India</i></p> <p>Utility of image processing on MRI scans for early detection of Alzheimer’s disease <i>Mathura M G, NITK Surathkal, India</i></p> <p>Comparative study of Edge Detection Algorithms for Diagnosis of Retinopathy of Prematurity <i>Aparna P, NITK Surathkal, India</i></p>

March 5, 2013 (Tuesday) Faculty of Engineering : Building No. 2 Room No.235 (Room D)

9:30 – 11:00	Technical Session Mechanical (M5)	<p>Adsorption property of Cs+ on phase-separating porous glass <i>Kazuko Yamasaki, Mikasa Nanotechno Co. Ltd., Osaka, Japan</i></p> <p>Effects of Cryogenic Treatments on Microstructures of the Fe-10Mn-8Al-0.7C Alloy <i>W C Chen, Southern Taiwan University of Science and Technology, Taiwan</i></p> <p>Controlled modification of structure of some manganites using electron beam irradiation for sensor applications - <i>Ashok Rao, Manipal Institute of Technology, Manipal University, India</i></p> <p>Comparative study of blood flow through normal and stenosed common carotid artery using Fluid-Structure Interaction - <i>S M Abdul Khader, Manipal Institute of Technology, Manipal University, India</i></p> <p>Patient specific fluid-structure Interaction study of cerebral aneurysm <i>Raghuvir Pai B, Manipal Institute of Technology, Manipal University, India</i></p> <p>An Integrated Flexible Tactile Sensor with Piezoelectric and Piezoresistive Transducers for Detecting Incident Slippage and Contact Force - <i>Cheng-Hsin Chuang, Southern Taiwan University of Science and Technology, Taiwan</i></p> <p>Dot Array Chip for Manipulation of Bio-nanoparticles and Immunosensing using Dielectrophoretic Force <i>Wan-Ting Su, Southern Taiwan University of Science and Technology, Taiwan</i></p>
11:00 - 11:30	Break	
11:30 - 13:00	Technical Session Basic Sciences & Related Fields (B1)	<p>Submetacompactness in fuzzy topological spaces <i>Baiju T, Manipal Institute of Technology, Manipal University, India</i></p> <p>Experience of Pilot E-learning System at the Secondary School in Tonga <i>Hans T. Sopa, Kumamoto University, Japan</i></p> <p>Comparison of parameters of Jelinski-Moranda model with the least square estimated Values <i>Murulidhar N N, NITK Surathkal, India</i></p> <p>Some Generalizations of Vertex Covering and Independence Numbers of a Graph <i>Sudhanva S. Kamath, Indian Institute of Science, Bangalore, India</i></p> <p>Influence of electrolytes on the redox capacitance of polyaniline electrodes and its supercapacitor behaviour - <i>Sowmya, Manipal Institute of Technology, Manipal University, India</i></p> <p>The Inhibition Effects of Chloroquinolines on the Corrosion of Mild Steel in Hydrochloric Acid Solution <i>B M Praveen, Srinivas School of Engineering, Mukka, India</i></p>

March 5, 2013 (Tuesday) Faculty of Engineering : Building No. 2 Room No.235 (Room D)

14:00 – 15:30	Technical Session Architecture (A1)	<p>Experimental results on the soundproofing effects of SPVG <i>Sohei Nishimura, Kumamoto National College of Technology, Japan</i></p> <p>Acoustic characteristics of the casement windows <i>Yuya Nishimura, Kumamoto National College of Technology, Japan</i></p> <p>Appropriate Residential Typologies for Mumbai, India <i>Madhura Y, Manipal University -Jaipur, India</i></p> <p>Temple Architecture in South–West India <i>Dinesha Acharya, NITK Surathkal, India</i></p> <p>Exploring Strategies for Sustainable Built Environment to Mitigate the Effects of Rapid Urbanization in Warm and Humid Climate - <i>Pradeep G Kini, Manipal University, India</i></p>
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