

## REPUBLIC DAY

The 63<sup>rd</sup> Republic Day will be celebrated at our Institute on January 26, 2012. The Director will hoist the *National Flag* at 8.00 a.m. in front of the Administrative Building.

## VIDEO SHOWS

The following cassettes will be screened at 1600 hours in Media Resource Centre - Level IV of the Central Library:

Date	Topic
January 23, 2012	Energy Towards the Age of Abundance: VC167 by National Education and Information Films Ltd., India (19 minutes)
January 25, 2012	Networks and Systems – Lecture No.13: VC 339 by Prof.V.G.K.Murthy (50 minutes)
January 27, 2012	Solid State Devices : Physics and Modeling - Lecture No.49 : VC 409 by Prof. S.Karmalkar (50 minutes)

## FILM CLUB

Date	Movie
January 21, 2012	No movie Due to Saarang
January 28, 2012	English Movie – The Adventures of Tin Tin

## THOUGHT FOR THE WEEK

***Six essential qualities that are the key to success: Sincerity, personal integrity, humility, courtesy, wisdom, charity.***

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# CAMPUS NEWS

## Indian Institute of Technology Madras

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## NEW PROJECTS

The following new Sponsored Projects have been sanctioned:

Title	Name of the Coordinator/Dept.	Sponsoring Agency	Value (Rs. in lakhs)	Duration
Uncertainty quantification and thermoacoustic instabilities	Dr. Sunetra Sarkar (AE) Dr. R I Sujith (AE)	ARDB	18.51	2 Years
Optimizing gasification of high-ash content coals for electricity generation (OPTIMASH)	Dr. S R Chakravarthy (AE ) Dr. Sreenivas Jayanti ( CH) Dr. Preeti Aghalayam (CH) Dr. BVSSS Prasad ( ME) Dr. V Raghavan (ME) Dr. T Sundararajan ( ME)	European Commission	429.35	4 Years
Characterization of metallic materials for biaxial loading	Dr. R Velmurugan (AE) Dr. Ravi Kumar (MM)	ISRO	29.57	2 Years
Smart nanomaterials for bioenergy technology	Dr. T S Chandra (BT)	DST	5.14	2 Years
Production of immunoassay compatible monoclonal antibodies against human thyroid stimulating hormone (hTSH) and their application in immunoassay development.	Dr. Rayala Suresh Kumar (BT)	BRNS	34.99	3 Years
Synthesis, characterization and testing of integrated photocatalytic adsorbents (IPCA) for water and wastewaters	Dr. Raghuram Chetty (CH) Dr. P Selvam (CY)	DST	6.46	2 Years
The changing risks posed by petroleum hydrocarbons in groundwater environments: Multiphase fluid dynamics coupled to multispecies biodegradation	Dr. Indumathi M Nambi (CE) Dr. R.Ravikrishna (CH) Dr. G Suresh Kumar (OE)	DST	39.26	3 Years

Finite fault slip models for past earthquakes in Indian by spectral finite element method	Dr.S.T.Raghu Kanth (CE)	Ministry of Earth Sciences	10.10	3 Years
Joint National Center for Combustion Research & Development	Dr.T.Sundararajan (ME) Dr.S.R.Chakravarthy (AE)	DST	4600.00	5 Years
Development of theory of fractal rational splines and applications in computer aided geometric design	Dr. Arya Kumar Bedabrata Chand (MA) Dr. G.Saravana Kumar (ED)	DST	15.08	3 Years
Development of advanced NDE techniques for enhanced sensitivity, reliability and reduced inspection time for detection and characterisation of defects in nuclear components - Phase III	Dr. Krishnan Balasubramaniam (ME) Dr. C V. Krishnamurthy (PH) Dr. Kavitha Arunachalam (ED) Dr. Prabhu Rajagopal (ME)	BRNS	554.00	3 Years
Development of next generation high precision grinding machine tool	Dr. N. Ramesh Babu (ME) Dr. Amitava Ghosh (ME)	Office of the PSA	284.90	3 Years
Fatigue behaviour of an ultra fine grained aluminium alloy processed by equal channel angular pressing	Dr. Uday Chakkingal (MM) Dr.S.Ganesh Sundararaman (MM)	DST	40.81	3 Years
The coastal inundation risk map study for Singapore	Dr. S A. Sannasiraj (OE)	National University of Singapore	15.69	2 Years
TiO <sub>2</sub> nanotube based gas sensors for the detection of greenhouse gases	Dr. Somnath Chanda Roy (PH)	DST	27.24	3 Years
Investigation of the optical properties of undoped and doped ZnO thin films and nanostructures grown by hot walled PLD on sapphire, silicon and diamond substrates	Dr.M S.Ramachandra Rao (PH) Dr. K .Sethupathi (PH)	DST	54.90	3 Years
Studies of size effect on the physical properties of phase separated electron doped manganites and other novel oxide	Dr.R.Nirmala (PH)	University Grants Commission	1.31	3 Years
Development of novel graphene nanocomposite anode electrode materials for lithium ion battery	Dr.S. Ramaprabhu (PH) Dr.V.Sankaranarayanan (PH)	DR&DO	34.00	2 Years

## SEMINAR TALKS – PH.D

**Shri Cibu K.Varghese**, Research Scholar, Department of Mechanical Engineering (ME09D039) will give a seminar talk on *Structural Identification using Combined Power Flow and Acceleration Approach in Substructures* at 1500 hours on January 24, 2012 in the MDS Seminar Hall.

**Shri Jiji Anna Varughese**, Research Scholar, Department of Civil Engineering (CE09D030) will give a seminar talk on *Displacement-based Seismic Design of RC Buildings* at 1600 hours on January 25, 2012 in the STR Seminar Hall.

## SEMINAR TALKS – PH.D. [CONTD.]

**Shri D.Giridhar**, Research Scholar, Department of Mechanical Engineering (ME06D014) will give a seminar talk on *Comparative Studies on the Performance on different Ceramics in a Micro-grooving Process* at 1430 hours on January 24, 2012 in the MES Seminar Hall.

**Ms R.Sreekala**, Research Scholar, Department of Civil Engineering (CE07D020) will give a seminar talk on *Investigations on the Dynamic Behaviour of Liquid Tanks for Near Fault Earthquakes* at 1500 hours on January 30, 2012 in the STR Seminar Hall.

**Shri Pramod Dominic**, Research Scholar, Department of Physics (PH05D015) will give two seminar talks on *Quantum Corrected Non-Supersymmetric Attractors* at 1530 hours on January 31 & February 1, 2012 in the Seminar Hall.

**Shri S.Bhaskar**, Research Scholar, Department of Civil Engineering (CE07D021) will give a seminar talk on *Study of Chloride Induced Corrosion in Cracked Concrete- Influence of Inhibitor & Service Life* at 1500 hours on February 3, 2012 in the BSB Seminar Hall.

## PH.D. VIVA VOCE EXAMINATION

The Ph.D. Viva Voce Examination of **Shri P.Vinod**, Research Scholar, Department of Computer Science and Engineering (CS04D002) will be held at 1530 hours on January 24, 2012 in the Seminar Hall. The title of the thesis is *Face Recognition Across Illumination and Pose Variations, Using a Single Training Sample*.

## AWARDS

**Shri B.Ratna Sunil**, Research Scholar, Department of Metallurgical and Materials Engineering has won the **BAJPAI-Saha Award** for the best student paper presentation during the XXII National Conference of the Society for Biomaterials Artificial Organs (INDIA) held during January 6-8, 2012 for the paper entitled *Degradable Metal Matrix Nanocomposites of AZ31 Mg alloy and HA by Friction Stir Processing: Characterization and Bioactivity Studies* co-authored with **Prof.T.S.Sampath Kumar** and **Prof.Uday Chakkingal**.

## STAFF MATTERS

**Dr.Soumya Dutta** has been appointed as Assistant Professor on Contract Basis for a period of 3 years in the Department of Electrical Engineering with effect from December 12, 2011.

**Dr.Shaikh Faruque Ali** has been appointed as Assistant Professor in the Department of Applied Mechanics with effect from December 13, 2011.

**Dr.Pazhamalai Anbarasan** has been appointed as Assistant Professor in the Department of Chemistry with effect from December 14, 2011.