

5th IEEE Magnetics Society Summer School 2012

Summer School Administration

Programme Committee

Prof. Mingzhong Wu (Co-chair)	Colorado State University
Prof. Albrecht Jander (Co-chair)	Oregon State University
Prof. Zbigniew Celinski	University of Colorado, Colorado Springs
Prof. Burkard Hillebrands	Technische Universität Kaiserslauter
Prof. Sara Majetich	Carnegie Mellon University
Prof. R. Shivaraman	SRM University

Student Selection Committee

Prof. Kristen Buchanan (Chair)	Colorado State University
Prof. C. Gopalakrishnan	SRM University
Prof. Leszek Malkinski	University of New Orleans
Prof. Alexandru Stancu	Alexandru Ioan Cuza University
Prof. Xiaoshan Wu	Nanjing University

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Thiru. Ravi Pachamoothoo	Chancellor
Dr. P. Satyanarayanan	Chairman
Dr. M. Ponnavaikko	President
	Vice Chancellor

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Prof. N. Sethuraman	Pro Vice-Chancellor (Medical)
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Prof. D. Narayana Rao	Director (E&T)
Prof. S. V. Kasmir Raja	Director (Research)
Prof. T. V. Gopal	Dean (Research)
Prof. D. John Thiruvadigal	Dean, International Relations
	H.O.D., School of Physics & Nanotechnology

Local Organization Committee

Prof. R. Shivaraman	Chair
Prof. C. Gopalakrishnan	Local Organizer
Prof. Helen Annal Therese	Local Treasurer
Prof. R. Venkatramani	Local Organizer
Prof. D. N. Rao	Local Organizer

Treasurer

Christina Chen	GE Global Research
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SRM University



SRM in Focus

Education is all about creating an environment of academic freedom, where bright minds meet, discover and learn. One would enter a world class living and learning experience at SRM.

SRM University - A source of unlimited knowledge.

SRM University is one of the top ranking universities in India with over 20,000 students and 1,500 faculty members, offering a wide range of undergraduate, postgraduate and doctoral programs in Engineering, Management, Medicine and Health sciences, and Science and Humanities.

Academic Environment

Foreign faculty, flexible and dynamic curriculum, exciting research and global connections are the features that set SRM apart. Students have a wide choice of cutting edge programs and research opportunities in fields such as nanotechnology, bioinformatics, genetic engineering, remote sensing and GIS, embedded systems or computer forensics to choose from. Most of these courses are offered in close collaboration with foreign universities.

Diversity of Students

80% of students are from outside Tamil Nadu, with students from Europe, China and other countries.

Semester Abroad Program

Over 150 students are being sponsored to 35 foreign universities like MIT, Carnegie Mellon, UC Davis, Warwick and Western Australia.

International Advisory Board

50 members from top universities across the world including MIT, Stanford, University of California Berkeley, Cambridge and National University of Singapore help set Global Standards.

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Guidelines to Summer School

Registration

The summer school registration check-in support will be open from 17:30 - 19:00 hrs on the 22nd of July 2012 and from 7:30 -8:15 hrs on the 23rd of July 2012 at Dr. T.P. Ganesan Auditorium, SRM University. The students are requested to finish their registration before the commencement of the Summer School lectures.

The students are requested to wear their ID cards at all times and need to produce food coupons for their meals.

Important venues for the Summer school are given below

Accommodation	Meenakshi Hostel
Inaugural function	Hall-I, Dr. T.P. Ganesan Auditorium
Welcome Reception and Dinner	SRM Hotel
Breakfast, Lunch and Dinner on Lecture days	Meenakshi Hostel
Help Desk	Dr. T. P Ganesan Auditorium
Chancellor's Banquet	SRM Hotel



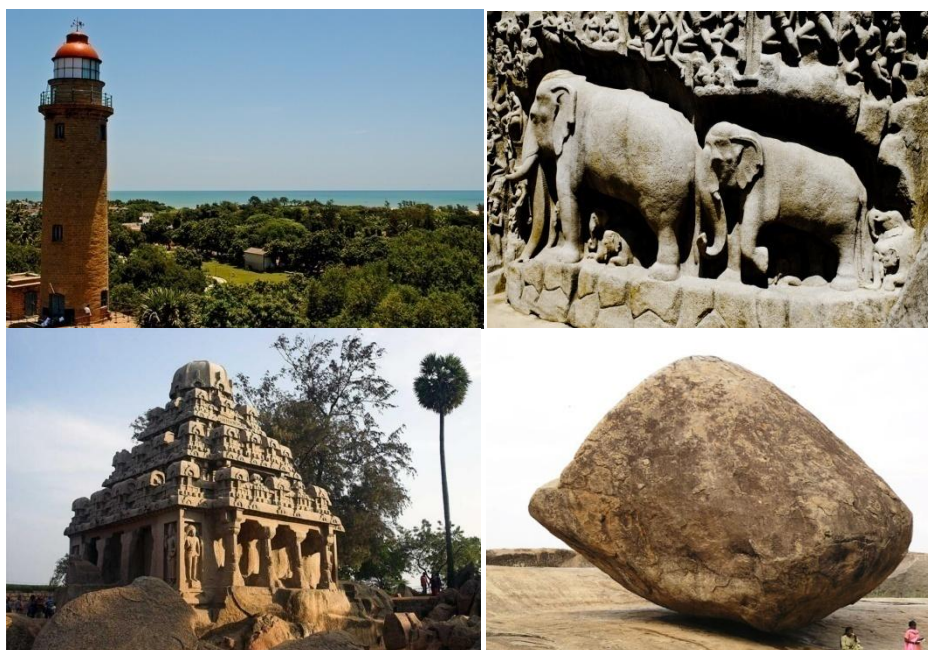
Vasan Photography

Excursion

Mamallapuram is one of Tamil Nadu's true traveller's enclaves, a mix of sun, seafood and sand. But it's much more than that. Famous for its ancient rock carvings, especially the Shore Temple was once the second capital and seaport of the Pallava kings of Kanchipuram. The village is listed as a World Heritage site and remains a renowned centre for stone carving; you'll see and hear the constant tapping of hammer and chisel as artisans chip away at exquisite sculptures.

The religious centre of Mamallapuram (formerly Mahabalipuram) was founded by a 7th-century-AD Pallava king, Narasimhavarman, also called Mamalla ("great wrestler"), for whom the town was named. The Pallavas, a 4th-9th-century dynasty, began as indigenous subordinates of the Satavahanas in the Deccan, moved into Andhra, and then to Kanchi (Kanchipuram today), where they rapidly adopted Tamil ways. Their genealogy and chronology, however, are highly disputed. Their rule was marked by commercial enterprise and a limited amount of colonization in Southeast Asia. Ancient Chinese, Persian, and Roman coins found at Mamallapuram attest to a flourishing seaport.

The Pallavas supported Buddhism, Jainism, and Brahminism, and were patrons of music, painting, and literature. But they were, in the end, ineffective in withstanding military pressure from the Western Chalukya dynasty, and their feudatories, the Cholas, gradually ousted them from power. About 880 AD, the Pallava dominions passed to the Chola kings. The best surviving Pallava monuments in Mamallapuram are the Shore temple, the sculptured rock relief known as Arjuna's Penance, temples carved from granite monoliths (Five Rathas), and numerous cave temples.



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Schedule

Day 1: 23rd July 2012

08:30 - 10:00	Fundamentals of Magnetism I	Laura Lewis, Department of Chemical Engineering, Northeastern University, USA.
10:00 - 10:30	Tea Break	
10:30 - 12:00	Fundamentals of Magnetism II	
12:00 - 13:30	Lunch	
13:30 - 15:00	Magnetization Dynamics I	Robert Stamps, Professor of Solid State Physics, University of Glasgow, Scotland.
15:00 - 15:30	Tea Break	
15:30 - 17:00	Magnetization Dynamics II	
17:00 - 17:30	Break	
17:30 - 19:00	Poster Session I	
19:30 - 21:00	Dinner	

Day 2: 24th July 2012

08:30 - 10:00	Spintronics I	Daniel Bürgler, Peter Grünberg Institut, Jülich, Germany
10:00 - 10:30	Tea Break	
10:30 - 12:00	Spintronics II	
12:00 - 13:30	Lunch	
13:30 - 15:00	Magnetic Recording I	S. N. Piramanayagam, Senior Scientist, Data Storage Institute, Singapore
15:00 - 15:30	Tea Break	
15:30 - 17:00	Magnetic Recording II	
17:00 - 17:30	Break	
17:30 - 19:00	Poster Session II	
19:30 - 21:00	Dinner	



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Day 3: 25th July 2012

08:30 - 10:00	Nano Magnetism - I	Beth Stadler, Electrical and Computer Engineering, University of Minnesota, USA.
10:00 - 10:30	Tea Break	
10:30 - 12:00	Nano Magnetism - II	
12:00 - 13:30	Lunch	
13:30 - 21:00	EXCURSION AND DINNER	

Day 4: 26th July 2012

08:30 - 10:00	Modeling and Simulations I	Roger Wood, Hitachi Global Storage Technologies California, USA
10:00 - 10:30	Tea Break	
10:30 - 12:00	Modeling and Simulations II	
12:00 - 13:30	Lunch	
13:30 - 15:00	Biomagnetism I	Robert Woodward, Centre for Strategic Nano-fabrication, The University of Western Australia.
15:00 - 15:30	Tea Break	
15:30 - 17:00	Biomagnetism II	
19:30 - 21:00	Chancellor's Banquet	

Day 5: 27th July 2012

08:30 - 10:00	High Frequency Materials I	Masahiro Yamaguchi, Department of Electrical and Communication Engineering, Tohoku University, Japan.
10:00 - 10:30	Tea Break	
10:30 - 12:00	High Frequency Materials II	
12:00 - 13:30	Lunch	
13:30 - 15:00	Magnetism/Superconductivity I	Sudesh Kumar Dhar, Dept. of Condensed Matter Physics and Material Science, Tata Institute of Fundamental Research, Mumbai, India.
15:00 - 15:30	Tea Break	
15:30 - 17:00	Magnetism/Superconductivity II	
17:00 - 18:00	Best Poster Award and Concluding Remarks	
19:30 - 21:00	Dinner	

