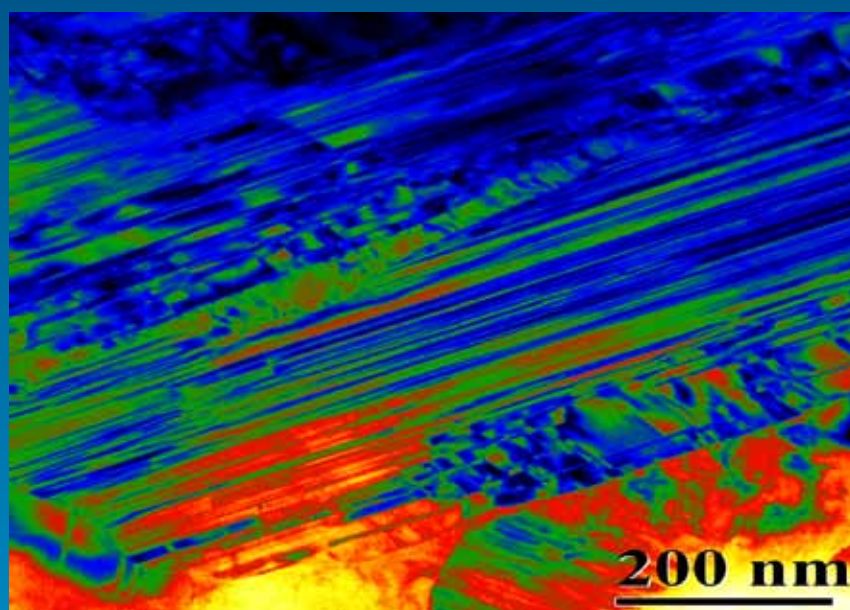


International Conference on
Electron Microscopy and Allied Techniques
and
XXXVIII Annual Meeting of the
Electron Microscope Society of India

EMSI 2017

17th to 19th July, 2017

Post - Conference Workshop
20th and 21st July, 2017



<http://emsi.org.in/emsi2017/>

Venue

Confluence Banquets & Resort

OMR - ECR Junction, Mahabalipuram 603104, Tamil Nadu, India

Organized by



Electron
Microscope
Society of India



Indira Gandhi Centre
for Atomic Research
Kalpakkam



Indian Institute of
Technology Madras
Chennai

ELECTRON MICROSCOPE SOCIETY OF INDIA (EMSI)

Established in the Year 1961, the objective of the EMSI is to promote Electron Microscopy and the various Allied Techniques and their applications in carrying out scientific research towards the development of Science and Technology in India. The society has a drive to motivate the scientific community especially the young researchers towards efficient use of Electron Microscopy and associated techniques available with today's state-of-the-art instruments.
<http://www.emsi.org.in/>

INDIRA GANDHI CENTRE FOR ATOMIC RESEARCH (IGCAR)

IGCAR was established in the year 1971, under the Department of Atomic Energy, Government of India. The centre is engaged in broad based multidisciplinary programme of scientific research and advanced engineering directed towards the development of Fast Breeder Reactors and associated fuel cycle technology.
<http://www.igcar.gov.in/>

INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IITM)

IITM is one among the foremost institutes of national importance in higher technical education, basic and applied research, since 1959. It has established itself as a premier centre for teaching, research and industrial consultancy in the country. A faculty of international repute, a brilliant student community, excellent technical & supporting staff and an effective administration have all contributed to the pre-eminent status of IIT Madras.
<https://www.iitm.ac.in/>

The International Conference on Electron Microscopy and Allied Techniques and XXXVIII Annual Meeting of Electron Microscope Society of India will be jointly organized by Indira Gandhi Centre for Atomic Research, Kalpakkam and the Indian Institute of Technology Madras, Chennai under the aegis of EMSI. This conference will provide a platform for eminent scholars from around the globe to share their knowledge and perspectives on recent advances in Electron Microscopy and allied techniques.

SCOPE OF THE CONFERENCE

EMSI 2017 includes a wide range of topics in Materials and Life Sciences. Dedicated sessions will include discussions on advances in SEM, TEM and other complimentary and emerging techniques such as Atom Probe Tomography, Fluorescence Microscopy, SPM, STM, Confocal Microscopy, AFM etc. The scope of the conference includes but is not restricted to

Advanced Microscopy Techniques

Aberration Corrected TEM & STEM, SEM - FIB, Ion Beam Microscopy, Electron Diffraction & Crystallography, SPM, HREM, OIM, In - Situ and Environmental Microscopy, Microscopy based microanalysis, Cryo Electron Microscopy, 3D-APT, etc.

Application of Microscopy to

Novel Materials: Functional Materials, Plasmonics, Thin films and Coatings, Low dimensional Materials, Aperiodic structures, Electronic Materials, Nanomechanics etc.

Engineering Materials including behavior under extreme environments.

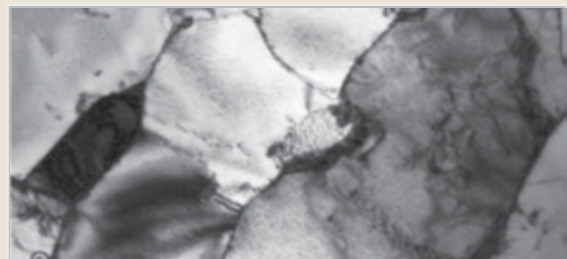
Bio Nanotechnology

Medical Applications: Imaging host - pathogen interaction, Brain Structure, Virology, Immuno-electron microscopy and microanalysis

Biological Sciences: Application in Palaeontology and Palaeobiology, Flow Cytometry and in Vivo Imaging.

Geological Materials: Earth and Planetary Materials, Sedimentary and Associated Rocks, Climate Research.

Post Conference Workshop on Electron Microscopy and Allied Techniques will be jointly organized by Indian Institute of Technology Madras and Indira Gandhi Centre for Atomic Research, Kalpakkam under the aegis of EMSI. The workshop will focus on 3D APT, Microanalysis, Microtexture, Advance TEM techniques and several topics on application of microscopy in biological sciences. It also includes expert lectures by internationally acclaimed speakers.



PHOTOMICROGRAPHY CONTEST

Delegates are encouraged to participate in the photomicrography contest.

For details please visit
<http://emsi.org.in/emsi2017/photomicrographycontest.php>



EXHIBITION

The conference includes an exhibition of state of the art technology microscopes and allied products from manufacturers spread across the globe. For details please visit
<http://emsi.org.in/emsi2017/exhibition.php>

CALL FOR PAPERS

Scientists, subject experts & students world over are invited to submit short papers (maximum 3 A4 pages single spaced with figures, tables and references), latest by June 02, 2017. Detailed information on paper submission is announced on the EMSI 2017 website <http://emsi.org.in/emsi2017/>

IMPORTANT DATES

Submission of Paper	February 15, 2017
Closing of Paper Submission	June 02, 2017
Intimation of Acceptance of Paper	June 15, 2017

PUBLICATION

Accepted papers after peer review will appear as conference proceedings.

VENUE

Mahabalipuram, also known as Mamallapuram, is a UNESCO World Heritage site. It lies on the gorgeous Coromandal Coast facing the Bay of Bengal. It is 56 kms from Chennai and is famous for spectacular stone artifacts, temples and the beach. The Confluence Banquets & Resort is situated on a green belt in this place and stands at the intersection of two arterial roads connecting to South Chennai and the Airport. For more information please visit www.confluenceconvention.com



REGISTRATION FEE

Registration fee covers delegate kit, conference proceedings, tea, lunch and dinner on conference days. Registration fee structure and method of payment is as below:

	Before May 30, 2017		After May 30, 2017	
	EMSI Members	Non-EMSI Members	EMSI Members	Non-EMSI Members
Delegates	Rs. 4000	Rs. 7000	Rs. 5000	Rs. 8000
Accompanying person	Rs. 2000	Rs. 3000	Rs. 2500	Rs. 3500
Students	Rs. 500	Rs. 2000	Rs. 1000	Rs. 3000
Overseas Delegates	USD 350	USD 500	USD 450	USD 600
Overseas Accompanying	USD 250	USD 300	USD 300	USD 350
Overseas Students	USD 100	USD 300	USD 200	USD 350
Company	Rs. 20000		Rs. 25000	

HOW TO PAY

Payment of registration fee/Sponsorship/Souvenir can be made through Cheque or Demand Draft drawn in favour of "EMSI 2017" payable at Kalpakkam or through online transfer to the bank account, details of which are given below:

For money transfer within India:

Company / Beneficiary Name	EMSI 2017
Name of the Bank	State Bank of India
Bank Address	Kalpakkam Branch, Tamilnadu, India
Account Number	36074965740
IFSC number	SBIN0002219

For money transfer from other countries:

Company / Beneficiary Name	EMSI 2017
Name of the Bank	State Bank of India
Bank Address	Meenambakkam Airport, Tamilnadu, India
Account Number	36074965740
SWIFT code	SBININBB298

ADVERTISEMENT CATEGORIES - EMSI 2017

Souvenir - Advertisements

Book size: A4, Print Area: 17 x 24 cm

Print material required from the advertiser preferably high resolution pdf / jpeg

Souvenir	Colour/ B&W	Amount (in Rs.)
Back outside cover	Colour	50,000
Back inside cover	Colour	40,000
Front inside cover	Colour	40,000
Full page (inside)	Colour	25,000
	B&W	15,000
Half page (inside)	B&W	10,000

SPONSORSHIP OPPORTUNITIES

Category	Amount (Rs.)	Banner / Location	Benefits				
			Souvenir	Stall	Delegate	Technical Presentation	
						Plenary	Invited
Platinum	8,00,000 Multiple	A, B	Full page colour	3	8	1	2
Diamond	5,00,000 Multiple	A, B	Full page colour	2	5	-	3
Gold	3,00,000 Multiple	A, B	Full page B&W	1	3	-	2
Silver	2,00,000 Multiple	A, B	Half page B&W	1	2	-	1
Bronze	1,00,000 Multiple	A, B	Half page B&W	1	1	-	-
Stall	50,000 Multiple	A	-	1	1	-	-
Dinner	1,50,000 2 each day	A, E, G	-	-	2	-	-
Lunch	1,50,000 2 each day	A, D, F	-	-	2	-	-
Cultural Programme	1,00,000	A, C, H	-	-	2	-	-
Conf. bag Sponsor	3,00,000	I	-	-	-	-	-

- A Combined display for all sponsors - Main auditorium & near registration desk
- B Display - All technical presentation halls
- C Display - Venue
- D Display - Lunch Venue
- E Display - Dinner Venue
- F Logo and name - Lunch invitation card
- G Logo and name - Dinner invitation card
- H Logo and name - Cultural programme invitation card
- I Name & Logo printed in the inside flip of the bag & leaflets can be inserted

ACCOMMODATION

The following hotels are recommended for the stay of the delegates. Mamallapuram being an international tourist spot and July being a month of high season, there will be great demand for hotel rooms. Special rates have been negotiated for the conference delegates. Delegates are requested to book directly by quoting "EMS 2017" to avail the special rates. These hotels can also arrange for airport/railway station pickup and drop on payment basis. The hotels may be contacted directly for availing this facility. Transport arrangement between the conference venue and hotels / IITM hostels will be taken care of by the organizers.

Hotel	Type of Rooms	Rate (INR)		Taxes	Distance from Conf. Venue (km)	Contact Details
		Single Occupancy	Double Occupancy			
Confluence Banquets & Resort	Standard	6,500	7,500	Extra	0	Mr. Kaushik Mobile: +91 9840660534 kaushik@confluenceconvention.com
	Villa	7,500	8,500			
Bay Treasure	Super Deluxe	2,673	2,673	Included	2	Smt. S. Reddy Mobile: +91 9840083801 (Whatsapp only) reachus@baytreasure.in
Mahabs	Standard	2,331	2,446	Included	3	Mr. Suresh Tel: +91 44 2744 2645 Mobile: +91 8098101135 mail@hotelmahabs.com
	Deluxe	2,839	2,979			
	Super Deluxe	3,345	3,510			
Mamalla Beach Resort	Deluxe	4,000	5,000	Included	3	Mr. Rajeev Tel: +91 44 2744 2475/3475 Mobile: +91 9442646875 rajeev@mamallaresort.com
Chariot Beach Resort (Private beach available)	Deluxe	7,500	9,000	Extra	3	Tel: +91 44 2742 5000, +91 44 2744 3002 Mobile: +91 9444992726 sales3@chariotbeachresorts.com
	Cottage	9,500	11,000			
	Suite	11,500	12,500			
Mamalla Heritage	Standard	2,750	2,899	Included	4	Mr. Mani Tel: +91 44 2744 2060/ 2260/ 2360 Mobile: +91 9380126188 / 9840260672 info@hotelmamallaheritage.com
	Deluxe	2,899	3,112			
Mamalla Bhavan	Standard	1,500	1,650	Included	4	Mr. Mani Tel: +91 44 2744 2060/ 2260/ 2360 Mobile: +91 9380126188 / 9840260672 info@hotelmamallaheritage.com
Novotel	Standard	6,000	6,500	Extra	10	Mr. V. Prasanna Tel: +91 44 6654 5454 Mobile: +91 8939808117 prasanna.vm@accor.com
IBIS	Standard	4,000	4,400	Extra	10	Mr. V. Prasanna Tel: +91 44 6654 5454 Mobile: +918939808117 prasanna.vm@accor.com
Radisson Blu Resort Temple Bay (Private beach available)	Garden View Chalet		10,000	Extra	3.3	Mr. R. Murali Room Reservations Tel: +91 44 2744 3636 Fax: +91 44 2744 3838 reservations@rdtemplebay.com
	Pool View Chalet		12,000			
	Sea View Chalet		14,000			
Students Hostel, IIT Madras, Chennai	Hostel Accommodation	--	400 approx.		50	Prof. B.S. Murty Co-Chairman, EMSI 2017 murty@iitm.ac.in; murty.iitm@gmail.com

PLACES OF INTEREST IN THE VICINITY

Tamil Nadu in the southern part of the country is well known for its traditional culture and art.

Mamallapuram (also known as Mahabalipuram), is a world heritage town in the southern part of India. It is situated on the shores of the Bay of Bengal, about 15 km north of Kalpakkam. The place is known for many marvelous monuments with sculptural panels, caves, monolithic rathas and temples. It also offers sunny beaches and beach resorts.

Crocodile Bank, about 35 km from the venue, is a world famous crocodile breeding and research centre. The reptiles are kept in their natural habitat in open pools and can be viewed from safe proximity.

Kancheepuram the 'Golden City of Temples' situated 65 km from Kalpakkam is a famous tourist spot. The 2000 years old city was the historical capital of Pallavas between 6th and 8th century.

Pondicherry, situated 75 km south of Kalpakkam, was a port city and was earlier a French colony. Pondicherry is the home to Aurobindo Ashram, Auroville, beaches, churches and temples and attracts a large number of tourists. Auroville is a universal



town where men and women from 45 countries, from all age groups, social classes, backgrounds and cultures, live in peace and harmony to realise human oneness.

Chennai, the capital city of Tamil Nadu is the fourth largest metropolis in India. It has a population of 8 million. Chennai is a gracious city and popularly regarded as the "Gateway to the South". Chennai is very well known for its rich culture and heritage. Music, dance and all other art forms are cherished and nurtured in Chennai. There are a number of important places of tourist interests in Chennai such as Fort St. George, Santhome Cathedral Basilica, War Memorial, Parks, Museums, Art Galleries, Beaches and Shopping Malls.

For more details, please refer to the following websites:

www.tamilnadutourism.org;
www.mahabalipuram.co.in;
www.auroville.org &
www.kanchi.nic.in

SIGHTSEEING TOURS

Sightseeing tours can be arranged for interested delegates and accompanying person on payment basis. The help desk at the conference venue may be contacted for details.

ENTRY INTO INDIA

A valid passport and Conference visa are required for entry into India. Overseas delegates are requested to obtain their visa from the Indian consulate/embassies in their respective countries. A letter of invitation can be obtained from the conference organisers for applying for visa. Delegates are advised to apply for Indian visa as early as possible.

TRAVEL FROM AIRPORT

Prepaid Taxi counters as well as services of Ola and Uber are available.

WEATHER

Mamallapuram will have comfortable weather during July. No warm clothing will be required. Temperature during the day will be about 35°C.



INTERNATIONAL ADVISORY COMMITTEE

Prof. / Dr.		Prof. / Dr.	
A K Jain	National Institute of Pathology, India	M Haider	Corrected Electron Optical Systems GmbH, Germany
A Kirkland	University of Oxford, UK	M Mah-Lee Ng	National University of Singapore, Singapore
A N Ghosh	National Institute of Cholera and Enteric Diseases, India	M Sundararaman	Indian Institute of Technology Madras, India
B Griffin	University of Western Australia, Australia	M Vijayalakshmi	President, Electron Microscope Society of India
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C B Carter	University of Connecticut, USA	P Midgley	University of Cambridge, UK
C G Park	University of Science and Technology, South Korea	P Radhakrishnan	PSG Institute of Advanced Studies, Coimbatore, India
C Sukumal	Mahidol University, Thailand	P Sengupta	Jadavpur University, India
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D Banerjee	Indian Institute of Science, India	R E Dunin Borkowski	Forschungszentrum Juelich, Germany
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G Sundararajan	Indian Institute of Technology Madras, India	S Banerjee	Dept. of Atomic Energy, India
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J L Carrascosa	Spanish National Research Council, Spain	S V Kamat	Defence Metallurgical Research Laboratory, India
J Mansfield	University of Michigan, USA	V Jayaram	Indian Institute of Science, India
J Mayer	RWTH Aachen University, Germany	V Tileli	Ecole Polytechnique Federale de Lausanne, Switzerland
J S Bellari	Indian Institute of Technology Bombay, India	W Jaeger	Christian Albrechts - University Kiel, Germany
K Chattopadhyay	Indian Institute of Science, India	Z Ze	Zhejiang University, China
K Furuya	National Institute for Materials Science, Japan		
K Muraleedharan	Central Glass and Ceramics Research Institute, India		
K Urban	Forschungszentrum Juelich, Germany		

NATIONAL ORGANIZING COMMITTEE

Prof./Dr./Mr./Ms.		Prof./Dr./Mr./Ms.	
A K Bhaduri	Indira Gandhi Centre for Atomic Research, Kalpakkam (Patron)	N Prabhu	Indian Institute of Technology Bombay, Mumbai
B Ramamurthy	Indian Institute of Technology Madras, Chennai (Patron)	N Ravishankar	Indian Institute of Science, Bengaluru
A Basu	National Institute of Virology, Pune	P Ghosal	Defence Metallurgical Research Laboratory, Hyderabad
Annie John	Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum	P K Giri	Indian Institute of Technology, Guwahati
A K Dinda	All India Institute of Medical Sciences, Delhi	P Sengupta	Bhabha Atomic Research Centre, Mumbai
B K Panigrahi	Indira Gandhi Centre for Atomic Research, Kalpakkam	P V Satyam	Institute of Physics, Bhubaneswar
D Karunakaran	Indian Institute of Technology Madras, Chennai	R Datta	Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru
D Srivastava	Bhabha Atomic Research Centre, Mumbai	S Bysakh	Central Glass and Ceramics Research Institute, Kolkata
G Amarendra	Indira Gandhi Centre for Atomic Research, Kalpakkam	S Dheepa	GE India Technology Centre, Bengaluru
I Samajdar	Indian Institute of Technology Bombay, Mumbai	S Suwas	Indian Institute of Science, Bengaluru
K Jamil	Jawaharlal Nehru Institute of Advanced Studies, Secunderabad	T K Chini	Saha Institute of Nuclear Physics, Kolkata
N K Mukhopadhyay	Indian Institute of Technology - BHU, Varanasi	U Kamachi Mudali	Indira Gandhi Centre for Atomic Research, Kalpakkam

CONFERENCE STEERING COMMITTEE

Prof./Dr. /Mr. /Ms.

S Saroja	IGCAR (Chairman)
B S Murty	IIT Madras (Co-Chairman)
A Dasgupta	IGCAR (Convener)
C Sudha	IGCAR (Treasurer)
S Bhattacharyya	IIT Madras (Workshop Co-Chairman)
S Sankaran	IIT Madras (Workshop Chairman)
V S Sarma	IIT Madras (Workshop Chairman)
G Ravichandra	ARCI, Hyderabad
K G Pradeep	RWTH, Aachen, Germany
Krishanu Ray	TIFR, Mumbai

Prof./Dr. /Mr. /Ms.

L Mekala	SVVU, Tirupati
M Banerjee	IIT, Delhi
P Poddar	NCL, Pune
R Divakar	IGCAR (Convener, Technical)
R Mythili	IGCAR
R Natesh	IISER, Trivandrum
R Pasricha	NCBS, Bangalore
R Tewari	BARC, Mumbai
S Amirthapandian	IGCAR

LOCAL ORGANISING COMMITTEE

Prof./Dr. /Mr. /Ms.

G Amarendra	IGCAR (Chairman)
A Dasgupta	IGCAR (Convener)
A K Vikraman Nair	IGCAR
Anish Kumar	IGCAR (Convener, Accommodation & Transport)
B P C Rao	IGCAR
C Mallika	IGCAR
G Phani Kumar	IIT Madras
John Philip	IGCAR (Convener, Venue Management)
Jojo Joseph	IGCAR
K Ananthasivan	IGCAR
K Laha	IGCAR
K R Sethuraman	IGCAR
M Kamruddin	IGCAR (Convener, Resource Mobilisation)
N Sridhar	CISF Kalpakkam

Prof./Dr. /Mr. /Ms.

P Parameswaran	IGCAR (Convener, Photomicrography Contest & Souvenir)
P Swaminathan	IIT Madras
P Haridoss	IIT Madras
R Sandhya	IGCAR (Convener, Press & Publications)
Rani P George	IGCAR (Convener, Registration)
S Govardhan Rao	GSO
S Murugan	IGCAR
S Raju	IGCAR (Convener, Proceedings)
R Ramaseshan	IGCAR (Convener, Web Management)
S Saroja	IGCAR
S S Boopathy	IGCAR
Shaju K Albert	IGCAR
S Chandran	IIT Madras
Tiju Thomas	IIT Madras
Utpal Borah	IGCAR (Convener, Catering)



Address for correspondence

Dr. Arup Dasgupta

Convener, EMSI 2017

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