

Interfinish-SERIA 2013

Asia-Pacific

An International Conference

7-9 August 2013, Chennai, India

on

Surface Engineering
For Research and
Industrial Applications

www.seria2013.rajalakshmi.org



Rajalakshmi
Institutions 

Chennai 602 105, Tamil Nadu, INDIA
www.rajalakshmi.org



International Union for Surface Finishing
www.iusfs.com



Singapore Surface Engineering Association,
Singapore, www.aseansurfin.org

Rajalakshmi Institutions in association with International Union for Surface Finishing and Singapore Surface Engineering Association is organizing an International Conference on Surface Engineering for Research and Industrial Applications Interfinish-SERIA 2013, Asia-Pacific during 7 – 9 August 2013.

- The conference is led by Rajalakshmi Engineering College (REC) and Rajalakshmi Institute of Technology (RIT).
- REC, Chennai, established in the year 1997, is one of the reputed engineering institutions in this part of the country, covering all the major branches of engineering, technology and management. Many departments are recognized as research centers by Anna University for pursuing M.S. / Ph.D programmes. RIT was established subsequently in the year 2008.
- REC has entered into MoUs with several foreign Universities and Industries such as IBM, Aban, Valeo and Bosch for collaborative research, development work and faculty/student exchange programs.
- The students have good academic track record in University exams securing several University ranks. The college has a good placement record.
- With Industry – Academic partnership in full swing, REC & RIT with their excellent in-house talent pool is actively engaged in Research and Development of innovative products and services. Based on the strength of such R&D activities, REC has been recognized as a Scientific and Industrial Research Organization (SIRO) by the Department of Scientific and Industrial Research (DSIR), Government of India.
- Funded Research projects received and ongoing worth INR 100 Million.



Need for the Conference

Product designers constantly strive to design machinery that can function more efficiently, last longer and operate more precisely. This event, focuses on Surface Engineering, Surface Coating, Electroplating, Precision Engineering and applications, covering the full spectrum of industries located in India as well as around the globe. The conference would attract participants from the world's leading companies in this field, looking for solutions that will help them to successfully create and deliver their products to the market.

In Association with



About IUSF

IUSF is a World-wide Union of Societies and Associations concerned with the Science and Technology of Surface Finishing. The mission of the International Union for Surface Finishing is to advance the knowledge and education in the science of surface finishing. IUSF was organized in 1984 and currently has twenty four member organizations representing twenty three countries (www.iusfs.com).

About SSEA

The Society represents the interests of more than 100 companies in the surface finishing community in Singapore. It counts contract electroplaters, surface finishers, suppliers of chemicals / equipment / technology, academics and PCB manufacturers as its members. The association, over the last 30 odd years, has established a wide network of contacts dealing in the surface engineering field around the world (www.aseansurfin.org).

Location

The conference is planned at Rajalakshmi Engineering College as it is located at the heart of the Industrial Hub in Chennai, the capital of Tamil Nadu. Chennai is considered as the "Detroit of India" as it houses many renowned auto majors such as Mercedes Benz, BMW, Hyundai, Ford, Ashok Leyland (Hinduja), Nissan, Caterpillar etc. Further, the industrial corridor around the college has many modern manufacturing plants in electronic hardware, glass, automotive engines and components such as Nokia, Flextronics, Samsung, Saint Gobain, Caparo, Borg Warner etc. The proximity to the industrial park will be ideal for delegates from overseas to network with local industries and vice versa.

Conference Mix

In order to be a step ahead of the competition, it is essential to focus on commercialization of inventions and to create a platform wherein industrial problems can be shared with researchers. New product development requires dedicated research manpower. Keeping this in mind, the conference is intended to attract papers dealing with recent research findings as well as those illustrating newer applications in the areas of surface engineering, ranging from surface coatings dry & wet applications to surface treatments and nanotechnology.

Turnaround on the expected lines will generate an ecosystem for end to end cutting edge solutions and exchange of ideas for the benefit of the researchers and industries located in India as well as around the world.

Product Exhibition

The organizing committee comprises of experts in the field of surface engineering. In addition, speakers and delegates from both leading industries as well as from academia will be attending the conference. Therefore, it will be an appropriate forum for various companies to exhibit their products, equipments and machineries related to surface engineering. Extensive networking opportunities will provide the exhibitors maximum exposure to many potential customers. Exhibitors and participants alike will be able to choose from a key selection of training workshops and courses designed to upgrade their knowledge and skills thereby maximizing their ROI. Exclusive sponsorship opportunities will provide additional exposure to widen the participant's market exposure and create an awareness of new product innovations.

Take a break

Chennai, the host city, is famous for its rich culture and heritage, ethnic cuisine and second longest coastline. (www.tamilnadutourism.org)

Your participation and valuable scientific contributions will be the cornerstone for the success of the conference. We are committed to do our best to make this conference a successful and memorable event. On behalf of the organizing committee, we take pleasure to invite you to participate through invited talk, presentations, and exhibition or as a delegate for mutual growth and benefit.

Conference Secretariat

Dr. Natteri M. Sudharsan (sudharsan.nm@rajalakshmi.edu.in +91 96770 35819)

Dr. R. Gopala Krishnan (phyrgk@nus.edu.sg)

Dr. B. Venkatachalapathy (vekatachalapathy.b@rajalakshmi.edu.in +91 94440 14777)

Dr. T. M. Sridhar (sridhar.tm@rajalakshmi.edu.in +91 94444 07615)

Organizing Committee

Patrons

Dr. Vijay Kumar Saraswat, SA to RM, Secretary, Defence R&D, Defence Research Development Organization, New Delhi

Dr. T. Ramasami, Secretary to the Government of India, Department of Science and Technology, New Delhi

Professor Samir K. Brahmachari, Director General, CSIR and Secretary to the Govt of India, DSIR, New Delhi

Mr. S. Meganathan, Chairman, Rajalakshmi Institutions

Dr. Mrs. Thangam Meganathan, Chairperson, Rajalakshmi Institutions

Prof. C.R. Muthukrishnan, Advisor, Rajalakshmi Institutions

Mr. K. Jayaram Krishnan, CEO, Rajalakshmi Institutions

Conference Chair

Dr. Natteri M Sudharsan,

Professor, Dept of Mechanical Engineering

sudharsan.nm@rajalakshmi.edu.in

Conference Co-Chair

Dr. R. Gopala Krishnan

Professor, Physics, NUS (Singapore)

phyrgk@nus.edu.sg

Chair Finance

Dr. B. Venketachalopathy

Secretary, Research Advisory Board, REC, Chennai

venketachalopathy.b@rajalakshmi.edu.in

Chair of Conference Editorial and Technical Committee

Dr. T.M. Sridhar

Professor & Head, Dept. of Chemistry

sridhar.tm@rajalakshmi.edu.in

International Advisory Board

Dr. Akitoshi Terasawa, Surface Finishing Society of Japan, Japan

Prof. Andrew Wee, Director SSL, NUS, Singapore

Dr. Baldev Raj, President INAE, Past Director, IGCAR, Kalpakkam

Dr. Chandra P Sharma, SCTIMST, Founder, SBAOI, Thiruvananthapuram

Dr. Chen Zhong, MSE, NTU, Singapore

Prof. BVR Chowdari, ED, NUS-India Research Initiative, NUS, Singapore

Dr. David Low, CEO, ARTC (A*STAR) and Formerly Chief of

Manufacturing Technology, Rolls Royce, Singapore

Dr. E.S. Dwarakadasa, IISc (Retd.) & CEO, Karnataka Hybrid Micro Devices, Bengaluru

Dr. Hee Taek Yum, VP, IUSF, Korea

Mr. Hiroyoshi Sato, The Vacuum Society of Japan, Japan

Prof. Hongjun Gao, Chinese Academy of Sciences, China

Prof. Hong Ro Lee, Korea Institute of Surface Engineering, Korea

Prof. Itagaki Masayuki, Tokyo University of Science, Japan

Dr. Joe A Abys, Enthone Inc, USA

Mr. Koji Kuroda Dai, Nippon Printing Co, Japan

Dr. Kash L Mittal, Editor, Rev. Adhesion and Adhesives, USA

Dr. C. G. Krishnadas Nair, Hon. President-SIATI, Former Chairman, Hindustan Aeronautics Ltd. Bengaluru

Mr. N. Kumar, VC, The Sanmar Group, Chennai

Prof. Michael G. Pecht, CALCE, University of Maryland, USA

Mr. M M Murugappan, VC, Murugappa Corporate Board, Murugappa Group, Chennai

Dr. Pietro Luigi Cavalotti, President, IUSF, Politecnico di Milano, Milano, Italy,

Prof. Seeram Ramakrishna, Vice President (Research Strategy) & Director, Center for Nanofibers & Nanotechnology, NUS, Singapore

Dr. T. S. Sudarshan, CEO, Matmod Inc, USA

Dr. C.S. Sundar, Group Director, Materials Science Group, IGCAR, Kalpakkam

Mr. Yoo Won Jong Samsung-SKKU Graphene Center (SSGC), Sungkyunkwan University, South Korea

International Organizing Committee

Mr. X Arokianathan, MD, Vitech Enviro Systems Pvt Ltd, Chennai

Dr. Ashok Kumar, Director, NREC, University of South Florida, USA

Dr. S. Bhatt, County Director, Ford India Pvt Ltd., Chennai

Mr. S. N. Eisenhower, Team Leader, Saint-Gobian Glass, Sriperumbudur, TN

Mr. Huw Williams, Serfilco International, UK
Dr. P. Iyyamperumal, ED, TSTC, Chennai
Prof. John F Watts, Director, Surrey Materials Institute (SMI), University of Surrey, UK
Mr. C P Kam, President, SSEA, Singapore
Dr. U. Kamachi Mudali, Associate Director, CSTG, IGCAR, Kalpakkam
Prof. M. Kamaraj, Head, MME, IITM, Chennai
Dr. Ma Jie, China Surface Engineering Association, China
Dr. R Mahadevan, Group Technology Director, India Pistons, Chennai
Prof. B S Murty, MME, IITM, Chennai
Mr. D.S. Nagesh, SCTIMST, President, SBAOI, Thiruvananthapuram
Mr. Natrajan Iyer, COO, New Business Development, Titan Industries, Bengaluru
Dr. Osamu Takai, Nagoya University, Japan
Dr. K. Pandurangan, PEC, Pondicherry
Dr. P. Peter, CEO, Valeth High Tech Composites Ltd., Chennai
Dr. R. Rajendran, B. S. Abdur Rahman University, Chennai
Dr. Raju V Ramanujan, Assoc. Professor, Sch. MSE, NTU, Singapore
Dr. K. Remesh, Lead Engineer, GE Transportation Systems, Bengaluru
Dr. H.B. Rudresh, CEO, Vijaya Metal Finishers, Bengaluru and President, Electrochemical Society of India
Dr. T.S. Sampath Kumar, IIT Madras, President, STERMI
Dr. T.S.N Sankaranarayanan, Chonbuk National University, S. Korea
Dr. Sik Choi Kwon, South Korean Institute of Machinery & Materials, S. Korea
Mr. Stewart Hemsley, Global R&D Manager (Plating), Metalor Technologies, Singapore
Dr. T. Subba Rao, BARCF, Kalpakkam
Dr. G. Sundararajan, Director, ARCI, Hyderabad
Dr. Vijayamohan K Pillai, Director, CECRI and Co-Chair, ECS India Section, Karaikudi
Dr. Viswanadam Gautham, CEO, Intelligent chip Connections Inc., USA
Dr. Vivekanand Kain, MSD, BARC, Mumbai
Mr. Yaadhav Raaj, AIATS, Singapore

Steering Committee

Dr. G. Thanigaiyarasu, Principal, REC (Convenor)
Dr. Arunkumar Sampath, Automotive Infotronics, Chairman, SAEINDIA, Southern Section, Chennai
Mr. N Balasubramanian, Renault Nissan, VC, SAEINDIA, Southern Section, Chennai
Dr. P. Bhanu Prasad, Professor, CSE, REC
Prof. K. Baskar, HOD, Automobile, REC
Dr. E.N. Ganesh, Principal, RIT
Dr. A. Geetha Karthi, HOD, Civil, REC
Dr. M. Kaarmegam, Dean, Civil, REC
Prof. R. Kannan, PSNA College of Engineering, JS, SAEINDIA, Southern Section, Chennai
Dr. P.S. Mani, Professor, Mechanical, REC
Dr. S. Mohamed Yacin, Head, BME, REC
Dr. S.N. Murugesan, Vice Principal, REC
Wg.Cd. N. Muthusamy, Professor, Aeronautical, REC
Dr. CKB Nair, IEI Tamilnadu, Chennai
Er. G. Pandian, DM, IOC, Chairman, IET Chennai Network
Mr. R. Radhakrishnan, Secretary General, Indian Concrete Institute, Chennai
Wg.Cd. N. Radhakrishnan, Director, TIFAC CORE, REC
Prof. P.S. Rajeshwaran, Dean, RIT
Dr. S. Renganarayanan, Dean, REC
Dr. S. Sampath, Dean, Automobile, REC
Dr. S. Selvaraju, Mentor, First year, REC
Prof. Y.K. Sinha, HOD, Aeronautical, REC
Dr. S.P. Srinivasan, HOD, Mechanical, REC
Mr. S. Sridhar, MD, Janaki Raman Solar Power Consultants, Chennai
Mr. N. Sriram, Samriddhi Foundation, Chennai
Dr. L. Sujatha, Professor ECE & Coordinator, NMDC, REC
Dr. R. Suresh, Dean, SRMC, Chennai
Er. K. Varatharajan, IEITN, Chennai
Dr. P.S. Venkatanarayanan, Professor, Aeronautical, REC
Er. J. Vijayaraghavan, Assoc. Professor & Organizing Secretary, IET Chennai Network

Conference Registration

Local

Academic Staff: INR 3000
Students: INR 1500
Industry: INR 9000

Overseas

Academic/Industry: US\$300
Students: US\$50

Special Offer:

CII Members INR 7500
SSEA Members US\$250

Workshop

Students: INR 1000
Students Overseas: US\$50
Local Industry: INR 5000
Overseas: US\$150

Exhibition Rates

**Air-conditioned space of size 6sqm
or multiples with basic furnishing
and reasonable power supply:**

Local: INR 42000
Overseas: US\$1100
CII Members: INR 36000
SSEA Members: US\$935

Sponsorship

Title

INR 10,00,000 or US\$ 25,000
Five booths + 3 Sessions + 6 attendees

Platinum

INR 500,000 or US\$12,500
Three booths + 2 Sessions + 4 attendees

Gold

INR 300,000 or US\$7,500
Two booths + 1 Session + 3 attendees

Silver

INR 100,000 or US\$2,500
One booth + 1 Session + 1 attendee

Important Dates

Abstract Submission
30 June 2013

Acceptance of Abstract
5 July 2013

Full Paper Submission
19 July 2013

Tracks

Coatings - Wet and Dry
Corrosion and Protection
Surface Treatment, Preparation and
Processes
Functional and Smart Coatings
Micro, Nano and Innovative Coatings
Surface Characterization, Testing and
Evaluation

Field

- a) Aerospace
- b) Automobile
- c) Biomedical
- d) Civil and Water Resources
- e) Chemical
- f) Electronics
- g) Mechanical

Target Industry & Research

Nuclear, Marine, Electrical, Medical &
Dental implants, Plating, Electronic
Components and Devices, Renewable
Energy, Heat Treatment, Ceramics, Paints,
Oil and Natural gas, Jewellery, FMCG.

Bank Details

A/C NAME : REC-BIDTE-2012
A/C NO : 6076002100000655
BANK : PUNJAB NATIONAL
BANK
BRANCH : IRUNGATTUKOTTAI
BRANCH CODE : 607600
IFSC CODE : PUNB0607600
MICR CODE : 600024045