

INDO - GERMAN WORKSHOP
On
Advanced Precision Engineering
Aerospace, Light weight structures composites,
Automotive Production / Civil and Structural Engineering
30th November – 2nd December
Coimbatore, Tamil Nadu/ India

PROGRAMME SCHEDULE

Monday 30th, November 2009

Inaugural function

Registration: 08:00 – 08:45

Inaugural function: 09:00 – 10:00 am

Venue: Auditorium Conference Hall

Sri. G. Rangaswamy, Managing Trustee, PSG Institutions

Professor Dr.-Ing. Jürgen Güldenpfennig, “Chairman North-South-Study Group, RWTH Aachen University” (10 minutes)

Sri. C.R.Swaninathan, CE, PSG Institutions (5 minutes)

Prof. R.Rudramoorthy, Principal, PSG College of Technology (5 minutes)

Dr. Thorsten Fischer, “Head DFG Deutsche Forschungsgemeinschaft (German Research Association) New Delhi Office” (10 minutes)

DST Representative, New Delhi (5 minutes)

Mr. Frank Martin Clauss, Chamber of Commerce and Industry, Mönchengladbach / Germany “Duel Vocational Education, a new way of Graduate Studies in Engineering Science (Institute-Industry Interaction)”

Mr. Achim Schulz, **Mr. Anuraag Srivastava**, MoU partners of IGIT@PSG, Joint Venture Partners of DTM, Bangalore “Mutual Benefits of Indo-German Academic-Industrial Cooperation, InActs of IGIT@PSG” (5 minutes)

High Tea : 10:00-10:30

1. Technical Session Schedule

30.11. 09 Monday		
Academic Presentations		Institution
Session 1 (10:30 am – 1:00 pm)		
Professor Dr.-Ing. Jürgen Güldenpfennig	Civil & Structural Eng. Research trends, innovations Theme: “Damages to foundations, South-Study Group and the conclusion for sustainable structures”	RWTH Aachen
Dipl.-Ing. Daniel Werner	Civil & Structural Engg research Trends , innovations Theme: “XFEM – a new finite element technology and its contribution to sustainable technical solutions”	RWTH Aachen
Dipl.-Ing. Pietro Di Biase	Civil & Structural Engg research Trends , innovations Theme: “Integration approaches of different disciplines regarding the life cycle of buildings”	RWTH Aachen
Prof. S. Rajasekharan	Civil engg.	Civil engg., PSGCT
Dr. Elangovan	Civil engg. Theme: GIS Applications in water resources and Environmental management	Civil engg., PSGCT
Session 2 (2:00pm – 4:45pm)		
Prof. PV Mohanram	Mechanical Engg. Theme: Lean Manufacturing applied to Machine Tool Manufacturing	Mechanical engg., PSGCT
Prof. P Radhakrishnan	Rapid Manufacturing	Mechanical engg., PSGIAS
Dr. Prabhuraja	Thermal analysis of machine tool structures	Mechanical engg., PSGCT
Dr. Giriraj	High speed machining	Mechanical engg., PSGCT
Prof. N.S.Vyas	Mechanical engg. Theme: Yet to be specified	Mechanical engg., IIT Kanpur

01-12-09 (Tuesday)		
Session 3 (10:00am – 1:00pm)		
Dr.-Ing. Rainer Thiele	Theme: “Development Support for EGR Valves(Pump Engine Technology)”	FEV German Company based in Pune
Professor Dr.-Ing. J.W. Biermann	Theme: “Development and Optimisation of Hybrid Bus Demonstrator”	RWTH Aachen
Dr. Gukan Rajaram	Fuel cells: Theme: Fuel cells for transportation	Mechanical engg., PSGCT
Mr. Manoj Kumar P	Fuel cells: Theme: Challenges in Fuel cell Technology development	Mechanical engg., PSGIAS
Dr. Anuradha Ashok	Fuel cell: Theme: TEM characterization of material for SOFC	PSGIAS
Dr.-Ing. A. Dafnis, Chief Engineer	Theme: “Design Manufacturing and Repair Methods of Composite Components for Industrial Application	RWTH Aachen
Session 4 (2:00pm – 4:30pm)		
Prof. K. Prakasan	Theme: Applications of virtual reality in product development.	Production engg., PSGCT
Dr.-Ing. Carsten Behrens	Theme: to be given	WZL Production Technology, RWTH Aachen
Prof. Bueddefeld	Theme: Detect original products through embedded nano-particles	i-nano-institute, university of applied sciences, HN krefeld,
Mr. Udhay Kumar	Theme to be obtained	Pricol Ltd., Coimbatore
Prof. H N Chatterjee	Theme: R & D in German Institutions	RWTH Aachen

2. IGIT @PSG –Group Discussions 30th Nov & 1st Dec

1.

	Dr. Langenbeck & Achim Schulz :	Theme: New way Production methods for UP machine elements (Metrology), Introduction for UP production, sub-micron, Practical application of Air bearings-	DIAMANT The Metal-plastic Co. offers a wide core range of more than 300 goods plus special products for pro-applications in the metal working industries and problem solutions for nearly any industrial and technical use
	Dipl. Eng. Werner Schwarz& Dr. Langenbeck:	Theme: High end Nano-precision production of UP turning Table (Zeiss), introduction for very large UP Air bearings, samples for a large Zeiss turntable-	ess-mikromechnik is cooperation partner of the patented method of machineless production of air bearings.
	IGIT@PSG and Achim Schulz:	Theme: Tribology Measurements with a new way measuring Machine, the tribology measuring functions as made by University Darmstadt-Prof.Piwowsky-	----DO----
	Achim Schulz & Anuraag Srivastava:	Theme: New way Production Eng Methods and Materials, Introduction into non-machining production methods of high end machine elements—	---DO---
	IGIT@PSG and Anuraag Srivastava:	Theme: Solving micropore, hairline crack, corrosion problems at the source occurring , introduction and practical examples for Rapid Mfg. and Thermal Spray Elements-	---DO---
	IGIT@PSG and Anuraag Srivastava:	Theme: Special repair and maintenance by cold welding methods, introduction and repairs-	---DO---

Projects-Presentation & Discussion			
	Construvation Project: Prof. Gueldenpfennig & Diamant	Theme: Pretest report RWTH, LMBau, Empirical Tests in INDIA by IGIT@PSG – Mailed to PSG and Prof. Vyas, IIT, Kanpur-	Research of new polymeric metals (or metallic polymers) and the development of joining and interlocking technologies in order to keep the ancient constructions wherever possible.
	Steelconseal /Stahlbetonsiegler Prof. Gueldenpfennig & Diamant & DTM	Theme: problem with wind Turbines, for 2 Product Ideas-	Protection of steel / concrete wind turbine base elements against physical and chemical wear & tear
	Adjustment Coatings- Diamant & DTM	Theme: new Project -	Embedding of e.g. wind turbine gears in place to reduce vibrations and improve efficiency
	Repair and Maintenance of Fiber Reinforced Plastics – Dr. Dafnis + Diamant and IGIT@PSG + Priol-	Theme: 2+2 Project Indo-German RWTH + Diamant and PSG + Pricol-	Maintenance and repair of Light Constructions made from FRPs An Indo-German project

3. DVE Inacts at IGIT @ PSG-Presentations & Group discussion.
30th/1st/2nd

DVE Inacts at IGIT @PSG-Presentation & group discussion		
Prof. Henning Hummels (FHE), Frank Martin Clauss, 2 NN of BTI	DVE Inacts at IGIT@PSG	FH Emden, IHK MG, BTI, Neuss
Mr. Bernhard Jöckel, Comm- Technical Adviser,	Setting up an IGIT structure in Coimbatore –	IGIT@PSG
Professor Dr.-Ing. Jürgen Güldenpfennig (Civil Engineer), Chairman North-South-Study Group,	RWTH Centre at PSG Tech , role of North-South-Study Group .	RWTH Aachen
Prof. P Radhakrishnan, Mr. Ramanikumar, Training Manager, PSGII and Prof. K. Jagadeesan Principal PSGITI	Sandwich educational programs in PSG Tech	PSG IAS
Conclusions 2nd Dec, 09		
(a)IGIT@PSG, (b)RWTH Centre & (c) DVE Programmes		

Vote of thanks:

- Prof.Dr.-Ing. Jan-Welm Biermann, RWTH Aachen University 5 minutes
- Mr. G. Govindarajan Advisor PSG 5 minutes
- H.N. Chatterjee, Coordinator North-South Study Group, RWTH Aachen
University 5 minutes

**The German delegation will take the fligh from Coimbatore to Chennai
at noon/afternoon on 2nd December 2009**