**BACKGROUND**

Gear manufacturing is a fairly complex metal cutting process and forms an integral part of many industrial products. Gears find a wide variety of application in diverse industries such as Automobile, Machine Tools, Aerospace, General Engg. and so on. With a growing demand for better productivity and quality of gears, the manufacturers are now increasingly seeking machine tools and technology that can meet their requirements. The customer expectations are driven by improved performance, cheaper cost, light weight, better efficiency, minimal noise, and rapid development.

From the traditional gears made by conventional methods of casting and forging to plastic gears, the technology of Gear manufacturing has evolved over the years. A combination of innovative manufacturing technologies and superior materials have made the Gear manufacturing process more simple and productive.

In order to highlight the technology trends, Indian Machine Tool Manufacturers’ Association (IMTMA) is organizing a two day seminar ‘Latest Trends in Gear Manufacturing’ on 11 May 2012 at Gurgaon.

**FOCUS AREAS**

- Overview of Gear Manufacturing in Automotive industries
- Evolution of Gear manufacturing processes (soft) Hobbing & Shaping
- New development in Hobbing with case studies & examples
- Green teeth finishing of gears – Gear shaving process
- Gear materials & Heat Treatment terminologies
- Evolution of Heat Treatment Processes
- Evolution of Gear manufacturing processes (hard) – Gear grinding
- New development in Grinding with case studies & examples
- Gear metrology – AGMA and DIN standards; Inspection & Testing of different types of gears. Definitions of Important parameters
- Advanced Gear measuring solutions
- Gear finishing process – Gear Honing, Polishing, Lapping & other specialised processes – Characteristics & Specific applications
- Automation in Gear Manufacturing technology

**FACULTY**

This seminar will be addressed by Industry experts from Chrystec Machine Tool Pvt. Ltd., Liebherr Machine Tools India Pvt. Ltd., Felsomat India Pvt. Ltd., Reishauer AG/Proteck Machinery Pvt. Ltd., Klingelberg/Francis Klein & Co Pvt. Ltd.

**PARTICIPANTS PROFILE**

This seminar will benefit Managers, Engineers and Middle management personnel involved in Production, Process Planning, Manufacturing & Engineering from Machine Tool, Automobile & Auto ancillaries, Tool Rooms, Consumer Durables, Aerospace, Industry Machinery, Defence & Railway units, General Engineering and other Capital goods manufacturing industries.

**PARTICIPATION FEES (Non - Residential)**

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<tr>
<th>Types of Organization</th>
<th>Fees per participant</th>
<th>Service tax (12.36%)</th>
<th>Total Participation Fees</th>
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<tbody>
<tr>
<td>IMTMA MEMBERS &amp; SSI COMPANIES</td>
<td>3500/-</td>
<td>433/-</td>
<td>3933/-</td>
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<tr>
<td>NON MEMBERS COMPANIES (Large &amp; Medium)</td>
<td>4000/-</td>
<td>495/-</td>
<td>4495/-</td>
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Fees includes participation, course material, working Lunch & Tea/Coffee. Companies interested in participation are requested to return the attached ‘Reply form’ duly filled along with Demand Draft/ at par cheque in favour of ‘Indian Machine Tool Manufacturers’ Association payable at Gurgaon to the address mentioned in the reply form.

**REGISTRATION**

Prior registration for participation is necessary.
Number of participants is limited and will be accepted on ‘First come First’ basis.
A Certificate of participation will be issued to participants.