Paris, France – May 27, 2010

ESI is the pioneer and world-leading solution provider in virtual prototyping.

Market Data

Listed in compartment C of NYSE Euronext Paris

ISIN FR 0004110310

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Connect with ESI

ESI is a golden sponsor of the 2010 IDDRG Conference in Graz, Austria

ESI will speak about recent improvements in Sheet Metal Forming technology

The International Deep Drawing Research Group (IDDRG) Conference is the annual international meeting place for Sheet Metal Forming experts to present the latest relevant and challenging topics, and to discuss important technical issues. The 2010 IDDRG Conference will be held May 31 to June 02, 2010 at the Old University in Graz, Austria.

ESI sponsors the 2010 IDDRG Conference at a Gold level for the first time as it is considered as the major event for the Sheet Metal Forming community. ESI will help address the conference scope – the processing of ultra high strength steels and advanced light weight materials – with one presentation providing engineers with knowledge and insights on improving the overall quality of die compensation.

Entitled '**Improvements in springback calculation and die compensation taking into account buckling, bottoming and shape control**', the paper will be presented by *Martin Skrikerud*, ESI's Die Face Design & Sheet Metal Forming Product Marketing Manager, on June 1 at 4.30 pm in the Auditorium II during the *'Tools 4'* session – C-Tool4-3.

In recent years, springback calculation and the compensation of the tool shape has become standard practice, allowing shorter prototyping times and lowering the risk of poor die design. However, in some cases the results from simulation have not been as accurate as expected, leading to problems and delays.

Reasons might be found in the phenomena of buckling or twisting during springback. These modes can in fact have a significant effect on the total springback. Therefore, an additional buckling analysis during springback calculation can help improve the overall result of the springback simulation.

Another possible reason for deviations between simulation and reality might be the bottoming effect. At the very end of the process, the amount of press force applied to the blank can have a significant influence on the amount of springback.

The presentation will look into the problem of instability during springback and bottoming effect as well as how to improve the surface quality of a successful die compensation by introducing "shape control" – allowing the management of shape control during compensation, particularly important for external panels with design constraints.

Delegates will also be able to find out more information about ESI's Sheet Metal Forming Suite by visiting ESI's booth in the exhibition area.

For more immediate information, please visit:
http://www.esi-group.com/products/metal-forming

For more ESI news, visit: http://www.esi-group.com/newsroom

About ESI Group

ESI is a pioneer and world-leading solution provider in virtual prototyping that takes into account the physics of materials. ESI has developed an extensive suite of coherent, industry-oriented applications to realistically simulate a product's behavior during testing, to fine-tune manufacturing processes in accordance with desired product performance, and to evaluate the environment's impact on performance. ESI's solutions fit into a single collaborative and open environment for End-to-End Virtual Prototyping, thus eliminating the need for physical prototypes during product development. The company employs over 750 high-level specialists worldwide covering more than 30 countries. ESI Group is listed in compartment C of NYSE Euronext Paris. For further information, visit www.esi-group.com.