

ESSS announces a distribution agreement with Zentech International Ltd.

ESSS, a leading developer of simulation software and provider of CAE technologies designed to optimize product development processes, is pleased to announce an agreement with Zentech International to distribute and support Zencrack in South America.

Zencrack is an advanced engineering analysis tool for 3D fracture mechanics assessment and crack growth simulation. The state-of-art software uses finite element analysis for the calculation of fracture mechanics parameters. It can be applied in any industry where knowledge of crack behavior, crack growth prediction, and residual life calculations are important. The use of interfaces to commercially available finite element codes - including ANSYS, Abaqus, Finas and MSC.Marc - allows users to take full advantage of their existing software investments. Zencrack's interface works via batch and CAE files to will provide users with outstanding capabilities for meshing, analysis and post-processing of the finite element results.

"More than ever, fail-safe is becoming a more valuable and essential concept in the offshore, automotive, and aeronautic industries", said Giovanni de Moraes Teixeira, the ANSYS Support Coordinator at ESSS. "Mechanical failure of components is a fact which cannot be avoided any longer in a competitive world. Safety project is no longer synonymous to infinite life, but rather to a project where you assume that some defects (cracks, voids, inclusions, for example) are likely to occur and, in doing so, you know exactly how to deal with this in order to minimize losses and damages."

Additionally, Zencrack can help users with maintenance of structures. It is difficult to decide when an expensive component is damaged and its replacement would be costly and time-consuming. Giovanni de Moraes Teixeira added, "If you can keep track of the crack path you shall be able to establish a better strategy for dealing with the problem, while possibly reducing costs and time. Without Zencrack, the engineer could replace such components too early in their lifecycle, by working in a conservative way."

Ramesh Chandwani, Zentech International's Managing Director said, "ESSS is recognized for providing premier CAE services in all South America. This is a significant addition to our global distribution, delivering the highest level of local technical support and training to a broad range of leading industries."

As ESSS' partner in the computational simulation market, Zentech will benefit from the company's expertise in sales, consultancy, implementation, training and support for Zencrack to clients throughout the South American continent.

About Zencrack

Zencrack provides flexibility with two levels of simulation capability - Standard and Professional. For industries where static loading is important, the Standard version can be used to evaluate stress intensity factors using energy release rate and nodal displacement methods. For thermal transients, the instantaneous stress intensities may be evaluated through the transient to steady state conditions. Collapse analyses may be undertaken to allow, for example, generation of data for failure assessment diagrams. The second level of capability is introduced through Zencrack Professional and provides a facility for 3D non-planar crack growth prediction for cases of fatigue and time-dependent loading. This includes several options for crack growth data definition and a flexible "load system" approach for defining complex load spectra.

About ESSS Ltda.

Engineering Simulation and Scientific Software brings leading-edge technology for numerical simulation of engineering problems and scientific software development to the market. ESSS develops customized solutions to a broad range of industries and provides CAE best-of-class software sales, training and consultancy. Headquartered in Florianópolis, Brazil, ESSS has offices in São Paulo (SP), Rio de Janeiro (RJ) and Santiago, Chile.

For more information: www.esss.com.br

About Zentech International Ltd.

Zentech provides consultancy services and software application development for the engineering industry. The company solves a wide range of analysis problems for clients in the offshore, nuclear, aerospace and manufacturing, as well as defense, structural and civil engineering industries. Business is conducted from the head office in London, United Kingdom, and through Zentech agents who provide market and support services for Zencrack software.

For more information: www.zentech.co.uk

Contact Details**ESSS**

Marcus Reis

Phone: + 55 (48) 3953-0040

E-mail: marcus@esss.com.br

Zentech International

Ramesh Chandwani

Phone: +44 (0)1252-376388

E-mail: Ramesh@zentech.co.uk