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FOR IMMEDIATE RELEASE

## **Third Wave Systems Boosts Software Performance AdvantEdge FEM 5.6 Delivers Improved Robustness, Accuracy**

**MINNEAPOLIS, MN.** (9 September 2010) – Third Wave Systems is pleased to announce the release of AdvantEdge FEM version 5.6. AdvantEdge FEM is a materials-based software solution for the optimization of metal cutting, and has been an innovative computer aided engineering (CAE) software package since its inception. The FEM software provides detailed information about heat flow, temperatures, stresses, and forces for machining processes.

Recognizing that improved software performance would benefit users of all backgrounds and industries, Third Wave Systems developers centered their activities for AdvantEdge FEM version 5.6 on the software's physics-based computation platform. Subsequently, enhancements were made to contact algorithms and wear modeling approaches; the resulting machining modeling data is more robust and accurate than previously-generated data.

All standard features for AdvantEdge FEM continue to be supported in version 5.6:

- STEP, STL, VRML, and DXF tool import
- Standard and custom tool creation
- Library of 130+ workpiece materials
- User-defined material and constitutive models
- Residual stress modeling
- Temperature and stress analysis of the following processes:
  - Milling (2D and 3D)
  - Turning (2D and 3D)
  - Drilling (3D)
  - Boring (3D)
  - Tapping (3D)
  - Grooving (3D)
  - Broaching (2D)
  - Sawing (2D)

(more)

**About Third Wave Systems, Inc.** Third Wave Systems provides physics-based machining modeling software and services used by Fortune 500 aerospace, automotive, and cutting tool companies to optimize machining processes. Headquartered in Minneapolis, Minnesota, USA, Third Wave Systems also has offices in Detroit, Michigan and Rotherham, UK. International distributors are located in Europe and Asia.

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