



## Upcoming SPAR User Events

*Austin, TX – October, 2004*

Clockwork Solutions is pleased to announce two upcoming events of interest to the SPAR user community.

First, on November, 29, 2004, we will be hosting a SPAR training session open to any party wishing to gain exposure to SPAR. SPAR Training is held in our training facility in Austin, TX. Visit the [SPAR Training](#) section of our website for more information, or contact us if you would like to attend.

Next, on December 9, 2004, during the week following our SPAR Training course, Clockwork will be hosting a SPAR user's conference. Clockwork clients and partners will be discussing projects and demonstrating the ways in which they use SPAR and other SPAR based products to improve the performance of their expensive assets through life-cycle modeling and RAM analysis. This is an excellent opportunity to meet with other SPAR users around the world and to learn about new and innovative ways of using SPAR.

### About SPAR

SPAR is Clockwork's proprietary asset modeling engine. SPAR™ technology consists of numerous extensions to traditional Monte Carlo techniques implemented in software. These extensions offer a method and tool for describing the fixed and the variable characteristics of a system in one model. SPAR then uses the model to predict the system's performance and cost. Variable factors addressed by SPAR models include the following:

- The structure of the system, including redundancy and reconfiguration.
- The objective for the system (throughput, availability, or safety targets).
- The operating policies of the system.
- Qualities of the system's components, such as initial age, aging rate, and repair time.
- External conditions, such as weather or power loss.
- The spare part stocking policies, including supplier lead time and part cost.
- The preventive maintenance schedules, resources required to carry them out, and their effect on the system.

Through simulation, SPAR establishes a relationship between these factors and a system's overall performance. A SPAR simulation provides a prediction of a system's performance over time, the cost of achieving that performance, and the sensitivity of the system performance to the variable factors which affect it. Through a continuing process of varying the inputs, one can trade-off performance, cost, and risk.

The course was a great success and was well received by everyone in attendance.

For more information on SPAR or other Clockwork tools and services, contact us at 512-338-1945 or [info@clockwork-solutions.com](mailto:info@clockwork-solutions.com)

[Link to SPAR 5.0 Product Announcement](#)