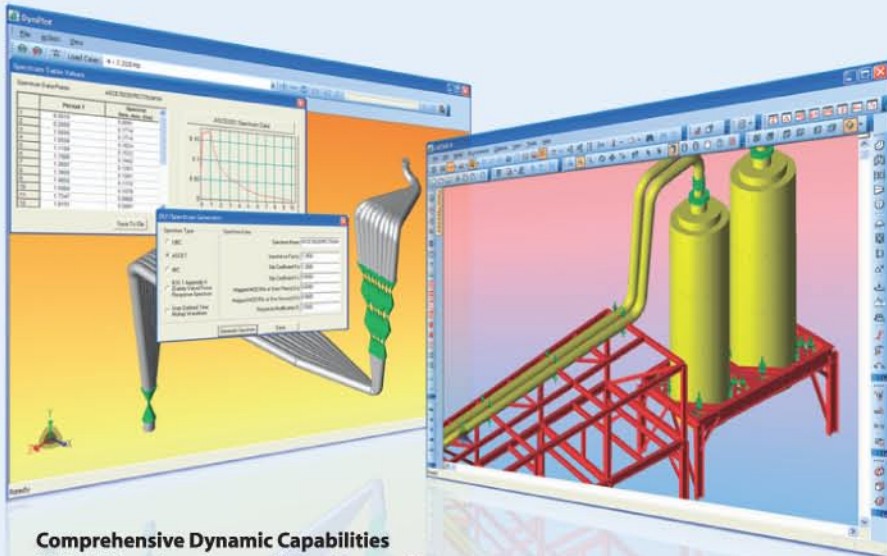


**I**n this second part of our series we will turn our attention to the important safety issue of pipe stress analysis or engineering.

Engineers have always been concerned with the safety issues related to their designs. Whether this was the boiler and steam piping for Stephenson's "Rocket" locomotive or high pressure fluid piping systems in space vehicles. Before the advent of computers such stress calculations on a piping system subjected to various loading conditions were simplified, empirical and usually extremely tedious. When computers (1960's) became available to engineers it was natural that some of the first engineering applications to be "computerised" were the solution of piping and other structural systems. By the early 80's there were perhaps 20 pipe stress packages available. Some programs stagnated and their developers failed to embrace the emerging workstation and IBM PC platforms. Today the survivors are few. By far, the leader of these is **COADE Engineering Software's CAESAR II®**, which, since its introduction in 1984 has become the world's most widely used pipe flexibility and stress analysis software.

CAESAR II is a complete solution that allows quick and accurate analysis of piping systems subjected to a wide variety of loads that take into account weight, pressure, thermal, seismic and other static and dynamic conditions. It can analyse piping systems of virtually any size of complexity.

Whether designing a new system or trouble-shooting an existing one, the program produces results that completely describe the system behaviour based on user-defined variables and accepted industry guidelines. With CAESAR II, you can do more in less time and do it more accurately.



**Comprehensive Dynamic Capabilities**  
CAESAR II analyzes many different types of dynamic effects.

**Steel Analysis Modeling**  
A full range of steel shapes are included to make the development of a complete analysis model a breeze.

IOCS is proud to have been an associate of COADE since 1996.

## CAESAR II®

### PIPE STRESS ANALYSIS

## Easy Accurate Reliable

**Why is CAESAR II trusted more than any other package for pipe stress analysis?**

Because 20 years on the market has proven it's the right tool for the job with features like:

- Intuitive, graphical interface
- International piping codes
- Static and dynamic analysis
- API, NEMA, WRC, AISC component evaluation
- Hanger and spring sizing
- Component databases
- Extensive material database
- Buried pipe modeling and analysis
- Structural steel modeling
- **Bi-directional links to CADWorx® Plant Design**
- Customizable reports

**CAESAR II delivers!**

Contact IOCS to find out how you can improve your design engineering efficiency.



## COME JOIN US!

### CADWorx Plant Design Suite Seminar

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Date : **5<sup>th</sup> December 2007**, Wednesday  
 Venue : **Republic of Singapore Yacht Club**, Level 2  
 52 West Coast Ferry Road Singapore 126887  
 Time : **11.00am to 4.00pm**  
 Buffet Lunch Provided

*Distinguished speakers from*  
**COADE Inc. Houston, Texas**  
 Mr John Brinlee, Sales Manager  
 Mr Joe Dixon, Product Manager

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