



CHAM Product Update
Pioneering CFD Software for Education & Industry

PHOENICS and FIELDVIEW
Computational Fluid Dynamics post-processing

CHAM is introducing a generic interface between PHOENICS, its powerful general-purpose CFD (computational fluid dynamics) software, and FIELDVIEW, an effective CFD post-processing software that quickly identifies important flow features and characteristics in simulations. It allows interactive exploration for thorough understanding of results. Examine and compare cases, extract critical values, and make compelling presentations.

Gain full understanding

After calculations have been performed using PHOENICS, FIELDVIEW allows easy interrogation of the simulation data to see the behaviour of fluid flows naturally and accurately. It improves productivity.

Perform an ideal simulation

PHOENICS produces datasets of varying sizes and FIELDVIEW can handle these seamlessly. FieldView works with transient and steady state data, with structured, unstructured, and hybrid grids. Very large calculations can be performed by PHOENICS and then FIELDVIEW's client-server architecture can accommodate the processing of those problems:

- Compare results interactively
- Use static images or animations
- Plot critical values
- Quickly see important flow characteristics
- Use advanced feature extraction--vortex cores, surface flows, shock surfaces

Automate and optimize

Engineering and research tasks are often repeated on multiple datasets. PHOENICS accommodates these and, with FIELDVIEW, tasks and routines can be automated which allows users to work with your results rather than recreating simulations.

- Compare datasets directly
- Produce standardized images and animations
- Suspend and continue work sessions; no need to start over

Prove your point

Create meaningful presentations to ensure audiences understand the message.

- Present complex data interactively
- Explore "what if?" scenarios
- Present cases live within FIELDVIEW or with recorded animations
- Share your insights with colleagues, managers, and stakeholders who are not CFD experts
- Increase the value of CFD inside your organization

PHOENICS calculations performed by Dr Ekehard Fiedler at M+W Zander and displayed through FieldView.

