

Newsletter from Octaga AS

Special issue for SIGGRAPH2007



## Case Studies



### World's most powerful particle accelerator is being monitored with Octaga Player

CERN, the European Organization for Nuclear Research, is the world's leading laboratory for particle physics. CERN is conducting advanced research projects and is one of the largest super computer users in the world.



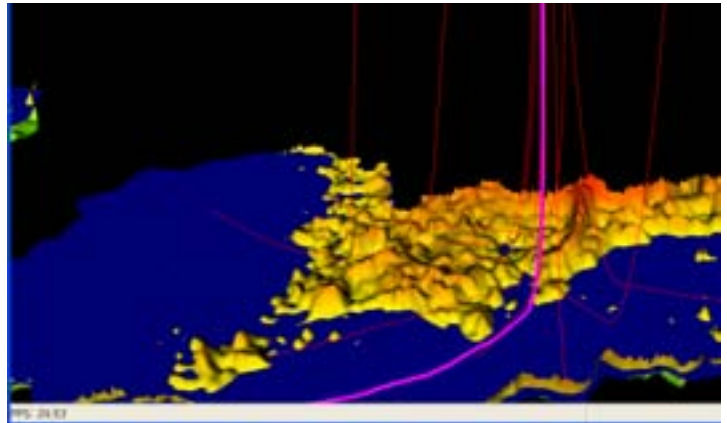
Picture: Cern's particle accelerator (copyright CERN)



HYDRO

### Octaga Player used for visualizing seismic data.

HydroVR is Hydro's powerful tool for analysing seismic data. Octaga has developed support for HydroVR data in Octaga Player. Now the 3D models can now easily be distributed and presented for a wider user group with Octaga Player.



"Using Octaga Player, we can make important seismic information available in an intuitive and efficient way", says Tore Løseth, Hydro geologist and responsible for HydroVR.

### FMC wins prize for best exhibition with Octaga Panorama using X3D technology



FMC Technologies needed a way to stand out from the myriad of exhibitors and draw people to

their booth at the world's biggest oil and gas exhibition the OTC07 in Houston. FMC produces complex sub sea oil and gas equipment weighing 1000s of tonnes and needed to show how their products look and work. FMC Technologies chose Octaga to create an interactive 3D panoramic cinema. Octaga used 3 clustered PCs with the X3D based Octaga Panorama viewer and 3 projectors to create a seamless 10x2 meters wide screen image. The underwater 3D world contained highly detailed engineering models and used several pixel shaders to visualize special effects among these a paper and pencil look to illustrate project sketches, and fluid effects for realistic flow of oil and gas in pipes. Aided by Octaga, FMC Technologies won the "best booth of the year award 2007".



### Octaga Under the Waves



The international magazine 3D World includes Octaga software in the August 2007 issue. Here readers can try out an example of the visual styles possible with Octaga's real time technology.

Picture: The scene portrays a diver in the year 1880 discovering the remains of the sailing ship Juno, all interactive in Octaga Player.



## Product News



Octaga Player is the world's first and best, commercial cross-platform 3D player for both the VRML and X3D ISO standards. Octaga Player supports the immersive and interactive profiles of X3D, which gives users a multitude

of visual effects options such as pixel shading and multi-texturing.

Octaga Player is a high-performance, standards-compliant 3D player that can run as a stand-alone application or as a plug-in to any Internet browser.

Octaga Enterprise is our new product for the engineering and construction markets where the use of CAD data is critical. Octaga Enterprise is ideal as a planning tool for operations, maintenance, training and project management. To be released in Q4 2007.



Key features:

- Automatic generation of interactive visualizations from CAD models;
- Preservation of semantic, hierarchy and property information from CAD models;
- Large model handling through streaming and compression;
- Redlining and annotations for collaboration;
- Automatic generation of hyperlinks;

Available as ActiveX component for Internet Explorer and MS Office applications and Java applet;

Support for IFC/buildingSMART (for AEC), ISO 15926 Posc Caesar (for Oil and Gas), as well as VRML and X3D;

RAD Kit with Java and COM APIs for 3rd Party Developers.



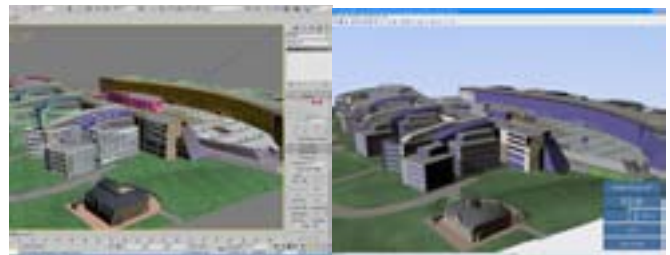
Octaga Enterprise streams and renders "the world's largest 3D model" for Shell - The Ormen Lange Processing Plant for real-time maintenance, planning and training purposes.

Key features:

- Multi-platform: Windows, Linux and now also for Mac;
- High quality, high performance rendering based on industry standard OpenGL;
- Runs as stand alone application and browser plug-in (supports all major browsers);
- Support for Scene Authoring Interface (SAI) in COM and Java bindings;
- Allows combination of 3D models with 2D layers, drawings, text, audio and video;
- Support for X3D and VRML file formats;
- RAD Kit with Java and COM APIs for 3rd Party Developers.

Octaga Exporter with integrated Sun-shadow simulator

Simulation results can be played and distributed in Octaga Player or Professional. Users can specify sun-shadow occluders and receivers from within the Autodesk 3D studio Max GUI. It is then possible to specify time, date, longitude and latitude inside the exported simulation.



"This is a great tool for architects, city planners and politicians" says PhD Pedro Ardila, special adviser in City Planning, Baerum Municipality, Norway. The Sun shadow simulation tool is in use by Ramboll Mapping AS to analyze the New city of Fornebu.



## About Octaga AS

Octaga is a major manufacturer of real-time 3D viewing software products for industries like offshore plant, building, and engineering sectors. Octaga Player/Professional the highly recognized viewers for standard web3D content (X3D, VRML and MPEG-4) is in use by more than one million users world-wide and industry specific viewers, Octaga Enterprise (IFC and ISO 15926). Among Octaga's customers are companies like Shell, FMC Technologies, Statoil, Hydro, IKEA and Rambøll Group. Octaga AS is based in Oslo, Norway.



For pricing and further information:  
Octaga AS  
Gullhaugveien 11  
N-0486 Oslo, Norway

Tel office: +47 23 00 91 27  
cell: +47 905 191 76  
fax: +47 23 009 128  
ola.odgard@octaga.com  
www.octaga.com