

SimplyRhino
sales, training and support



Rhino UK User Meeting
Design Museum, London
6th July 2011

in association with



Simply Rhino presents

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Wednesday 6th July 2011

Design Museum

Shad Thames

London

SE1 2YD

9.00am - 5.00pm

front cover image courtesy of Heatherwick Studio

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09.30 **Rhinoceros, Design Environment and Development Platform**

Carlos Perez
McNeel Europe

An overview of the latest developments at McNeel and emerging communities, including:

- Rhino 5.0
- Rhino OSX
- iRhino3D
- Flamingo nXt
- Bongo 2.0
- RhinoPython
- RhinoCommon
- RhinoFabLab
- Generative Design with Grasshopper

This presentation will be followed later in the day by a live demo of Rhino v5 highlighting some of the new and improved commands and features.

10:15 **The Hand and The Glove**

Michael Eden
Eden Ceramics



image courtesy of Adrian Sassoon ©

Michael's work explores the relationship between hand and digital tools, investigating experimental manufacturing technology and materials.

"I am particularly interested in how the tacit knowledge and sensibility to the 3 dimensional object developed through extended practice can affect and influence the approach to the creation of objects using digital technology."

"As a member of a unique generation that has bridged the digital divide, I firmly believe that particular perspective has enabled us to contrast and compare life before and after the invention of the personal computer. For me it is not a matter of comparisons, I feel very lucky that life at the beginning of the 21st century has furnished me with a wider choice of tools in my toolbox. All have their place, the new does not replace the old; the key is to make appropriate use of them."



image courtesy of Adrian Sassoon ©

10:45 Class A Surfacing Goes Mainstream

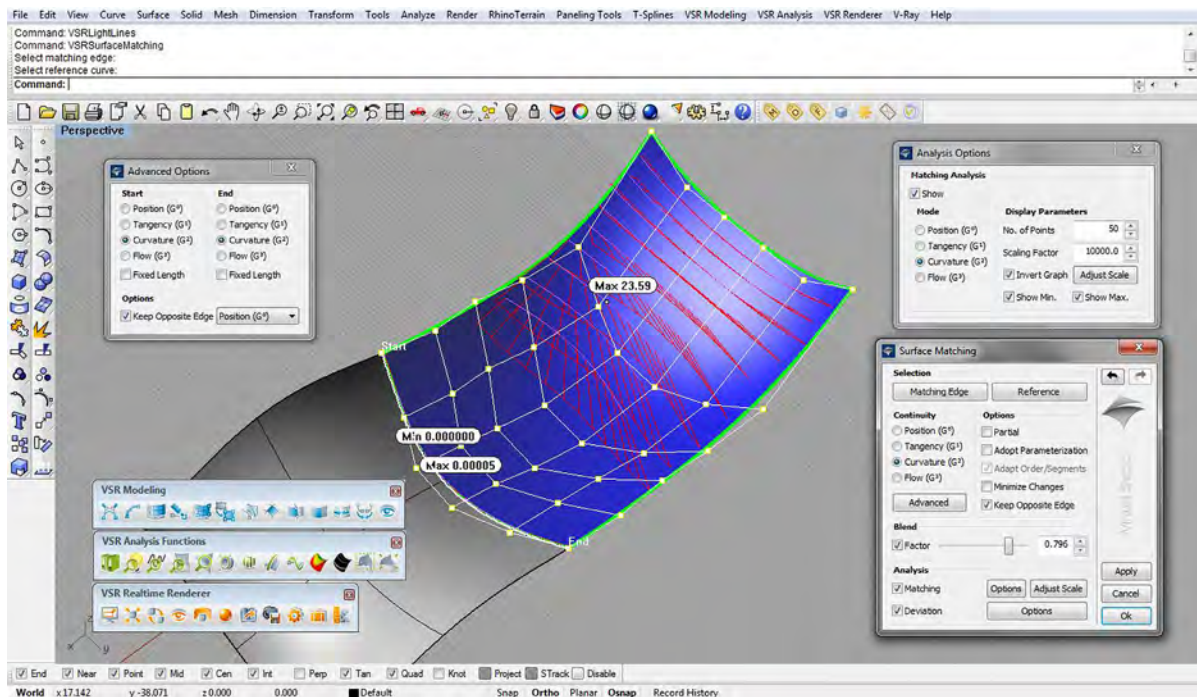
Peter Salzmann

Virtual Shape Research

Expressive design including complex freeform geometry is an important factor in bringing many new products to market. In certain industries, such as Automotive design, there is a standard methodology of so called 'Class A' Surfacing where these complex freeform surfaces are represented as production ready continuity matched single span patch surfaces.

Until now this modelling workflow has only been available in costly, specialist software. Virtual Shape Research is developing the needed high end functionality for Rhino with a series of plug-ins covering modelling, analysis and visualisation with the aim of making the Class A methodology affordable for all, design studios plus hobbyists and students, this technology will also appeal to those looking for an alternative to the expensive existing 'Class A' in house solution.

In this presentation, VSR will be showing the plug-ins currently available and those in development.





With HP 3D printers, office-ability is more than just a claim. Trust the company that really knows office printing — our shared desktop 3D printing solution is clean; office-friendly; and so easy to operate, just about anyone can do it.

- Produce quality models and prototypes in the convenience of your own office environment. This series fits perfectly right next to your desk for easy model access. And it has a built-in network card for easy workgroup sharing
- The HP Designjet 3D printing solution uses recyclable ABS plastic.

Models are ready-to handle directly from the printer without gloves. And with the HP Designjet 3D Removal System, special disposal methods or equipment are not typically required.

- Creating models doesn't have to be a messy or painstaking process. The HP Designjet 3D Removal System eliminates the need for manual post-processing — so you can easily create models that are ready to show while you and your office stay clean.
- No need to spend a lot of time training or learning how to operate this new 3D printer from HP. It is so intuitive and easy to use, you can spend more time working on your design.

12:15 **Constraint-Based Parametric Modeling with RhinoWorks**

Dmitry Ushakov

Ledas

RhinoWorks is a plug-in that brings constraint-based parametric design to Rhino.

Adding constraints is like declaring “these two faces should be parallel” or “they should be 100mm apart”. Applying constraints forces geometric bodies to change their shapes and/or position in 3D space automatically. RhinoWorks significantly increases productivity of your usual design workflow.

During the presentation Dmitry Ushakov, CEO at LEDAS, will demonstrate how the solids which are created in Rhino or imported from other systems can be easily modified and combined into kinematical assemblies with help of RhinoWorks.

The following topics will be covered in the presentation:

- Creation and subsequent modification of parametric solids (box, cylinder, sphere, torus) and geometric features (pad, fillet, hole)
- Parametric editing of a model created in SolidWorks
- Combining constraints with Rhino “record history” mode to edit complex surfaces
- Assembling a mechanism from rigid parts and forcing it to move
- Producing a high-quality animation with RhinoWorks

01:45 **Making Up Things**
Stuart Wood - Senior Designer
Heatherwick Studio



image courtesy of Steve Speller ©

Heatherwick Studio exists to make extraordinary projects happen.

Established by Thomas Heatherwick in 1994, it is recognised for its work in: architecture, urban infrastructure, sculpture, furniture design and strategic thinking. Team members come from disciplinary backgrounds that include architecture, product design, model-making, fabrication, landscape design, fine art and curation. Senior Designer Stuart Wood will focus on how Heatherwick Studio uses Rhino as an integral tool to explore ideas and projects at every scale, including some of the more unusual moments.

Featured projects will include:

- UK Pavilion
- Bleigiessen sculpture at Wellcome Trust
- New Bus for London
- East Beach Cafe
- Christmas Cards



image courtesy of Andy Stagg ©



image courtesy of Heatherwick Studio ©

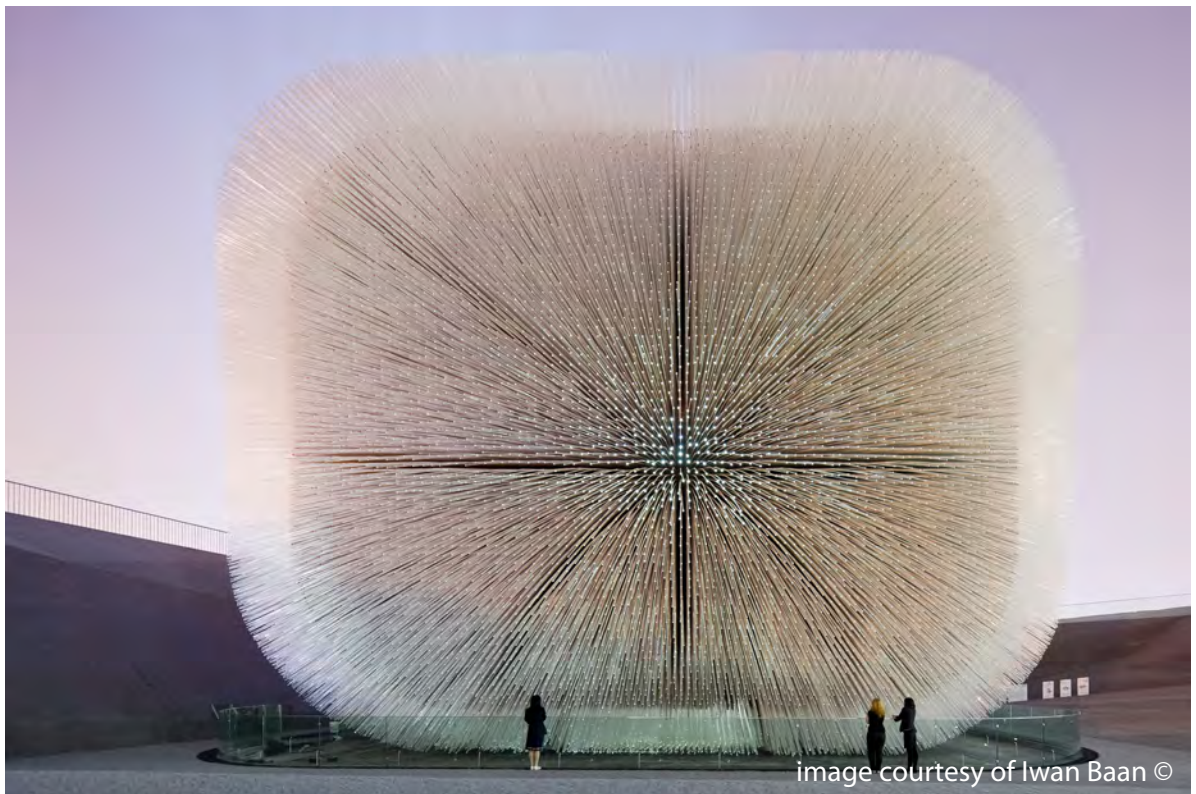


image courtesy of Iwan Baan ©

02:30 **T-Splines 3.0 for Rhino**

Matt Sederberg

T-Splines

T-Splines for Rhino allows users to break free from the rigidity of traditional surface modeling approaches. T-Splines 3 for Rhino helps designers create smooth, high-quality CAD models and quickly achieve the right look and feel.

Matt Sederberg, CEO of T-Splines, will explain what T-spline and subdivision surface modeling is and why it is seeing a surge in popularity in CAD programs. Matt will show the unique benefits that exist only in T-Splines for Rhino and highlight the top industrial design firms that are using T-Splines and explain why they are using it. The new features in T-Splines 3 for Rhino will also be demonstrated.



03:30 **Scan & Solve - Analysis in Rhino**

Vadim Shapiro

Intact Solutions

Scan&Solve™ for Rhino is a software from Intact Solutions that completely automates basic structural simulation of Rhino solids. Unlike other analysis tools, no preprocessing (meshing, simplification, healing, translating, etc.) is needed.

In this presentation, Vadim will outline:

- The basic ideas and technology behind Scan&Solve
- Current product capability
- Work in progress
- Future Plans

04:00 **From Rhino to Reality**
Gerard Petersen
ScheepsbouwKunst



image courtesy of ScheepsbouwKunst ©

Gerard Petersen is a respected Dutch naval architect and marine concept developer.

“With my projects I insist on realising my visions and ideas into the final products. Without Rhino it would have not been possible to develop the unique hull of the Kenau electric motorboat. The total product was designed and engineered integrally with Rhino in 2001. Both the exterior design, interior, structure and technical installation were developed and modeled in Rhino and prepared for production. With several plugins, today I have even more tools available within Rhino to develop new products even better. Besides evolving the design and styling, it is now possible to perform several design and engineering analysis processes directly in Rhino and make instant design presentations both in 2d and 3d. In my latest Villo project it is even possible to parameterize the basic concept and conduct instant design variations.”

In the Netherlands, Gerard founded RhinoCentre in 2003 to share his developed knowledge. Today he is world leading with his support to the marine industry in making designers more productive with Rhino.



image courtesy of ScheepbouwKunst ©

04:30 Product Demo - Including V-Ray for Rhino v5

Phil Cook

Simply Rhino

Product Demonstration to Include:

Rhino v5 WIP - New and Improved Commands

VSR Real Time Render

V-Ray for Rhino v5 Beta - New Features and 2.0 V-Ray Core

