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November 2010

Latest News & Events

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- ▶ **Scia Engineer Review:** read this [review](#) by AECbytes
- ▶ **Allplan 2011 is released...**
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New Software Updates

- ▶ Customers can download the **latest service packs** from our [secured download section](#).
 - Scia Engineer 2010.1.269
 - Scia Steel 2010 SP1
 - Allplan 2009-2-2
 - Allplan Precast 2008.2a5
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- ▶ **Online training calendar 2010.** Subscribe online...



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Software Gallery

Dear eNews reader, this month we present you the following topics:

- **New: Scia Engineer Structural Edition - Reinforcing the teamwork at engineering design offices**
- **Nemetschek Engineering User Contest 2011: Put your Projects in the Picture**
- **Tips & Tricks: New load panel in Scia Engineer 2010.1: Load panel to edges/beams**

New: Scia Engineer Structural Edition - Reinforcing the teamwork at engineering design offices

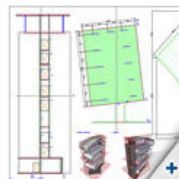
Nemetschek Scia has released a **new Edition** of its flagship product Scia Engineer intended for BIM modelling professionals. With this edition an engineer or draftsman is able to model and detail any 3D structure, be it a building, a roof, a staircase, an industrial plant, a bridge, a tunnel or an arbitrary composition of solids, 2D and 1D elements.

All parametric functionality is available enabling to create company specific templates or structural libraries. Modelling and detailing in 3D is the primary focus. The engineering structural documentation with drawings and quantities is worked out with this edition. General arrangement drawings and details are extracted from the model. The model data can be sent to another Edition of Scia Engineer (Concept, Professional or Expert) to perform the analysis and design part. In this way teamwork in a design office is stimulated, joining modelling professionals with design engineers, creating the bridge between CAE and CAD in an efficient and inexpensive way.

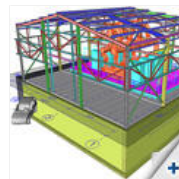
The **high interoperability** features allow importing **external model information**, e.g. an HVAC installation, piping, or other non-structural information. With collision checking and easy visualisation tools this edition leads to significant productivity gains. In a multidisciplinary design office, tasks related to structural modelling will be executed with this edition. Aligning and transforming architectural elements to structural building parts (e.g. walls, slabs, stairs, foundations...) are examples of this feature. Interoperability with other software products such as Allplan, ArchiCAD, Revit, Tekla Structures and Vectorworks is managed with this edition.

We are pleased to refer to a **customer website** to illustrate the strong modelling and detailing capabilities within Scia Engineer, see www.ryklin.de.

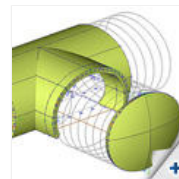
Seeing is believing!



Automated General Arrangement drawings



Collision checking



Tunnel crossing modelling



Structural Edition

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Nemetschek Engineering User Contest 2011: Put your Projects in the Picture

Several companies have already sent in their projects for the seventh edition of the renowned international competition taking place among the software users of the Nemetschek Engineering Group! **How about you?**

Over the years, this contest has become a celebrated event which users look forward to and that gets a lot of credit from the international press. Shoot a glance at the projects of 2009 in our [online flippable User Contest eBook](#). We will gladly send you a free of charge **hard copy** if you do not yet own it or you can [download this book as a PDF](#).

Take action and participate, your benefits are numerous:

- National and international attention for your company and its projects
- Potential buyers will notice your services
- The winning projects will be communicated to the international press for publication in specialized magazines and websites
- Extensive marketing by the Nemetschek Engineering Group
- Several thousand copies of the User Contest book will be distributed in the engineering community. About 50 000 people do read the book
- There are five categories (Buildings, Civil Structures, Industrial Plants, Industrialized Planning, and Special Projects) in which you can win 1 500 euro each
- An international jury will give feedback on the level of engineering quality and creativity
- Share experiences how design and detailing tasks are performed in real situations
- Get a quick overview on all ongoing construction projects where Nemetschek software is used for engineering purposes

Only one month to go before the contest will close, time to select your most appealing projects and to register immediately. With little effort, you obtain maximum exposure.

You find all practical information regarding the contest on www.scia-online.com/contest.

Start uploading your projects today!



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Tips & Tricks: New load panel in Scia Engineer 2010.1: Load panel to edges/beams



► Bridges in Scia Engineer



Customer: University of Zilina



Customer: SD Ingénierie Genève SA

Loading of structures is a time-consuming task. Scia Engineer offers numerous tools to streamline it.

One of the most effective means is a **Load panel**.

Scia Engineer defines **Load panels** as auxiliary entities with the sole purpose to distribute loads to structural elements of the model.

Prior versions already defined some sets of load panels dedicated to special cases.

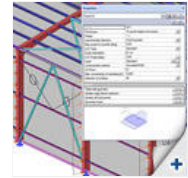
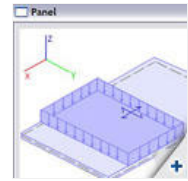
The generic load panels were introduced in Scia Engineer 2010. Until that version, we had the Load to panel nodes, Load to panel edges and Load to panel opening edges. Furthermore, there was also the Load to beams.

In 2010.1, a new load panel type is developed: **load panel to edges/beams**. This brand new panel type allows the user to load **also the internal beams and edges** (e.g. at the location of a wall). In previous versions, only beams at the edges were loaded. With this option each type of surface load, on a 2D member or free load, can be generated to line loads.

Another new functionality of the load panels is the **FEM Method**. In version 2010.1, there are two methods for transfer in the case of the Load to panel beams and edges:

- Standard method, this is based on the total load on the load panel and the total projected length of the loaded members, with a uniform generated load on the length
- FEM method: is an alternative method that approaches reality even more

With regard to this accurate FEM method, the panel will be calculated as an orthotropic plate which results in a still more correct load distribution.



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