

Dear eNews reader.

In this fall edition of our electronic newsletter our staff members of the 'Customers Services' department are presented ... now you see how many people are internationally on 'stand by' for consultancy, trainings and software support. Our CAE product engineers keep you informed on the theme 'composite concrete and steel' and you will also find an interesting support tip.

Further on we have an article on the further developments in Dubai and as always we present a nice project of one of our customers

Get yourself a nice cup of coffee and have a lot of reading pleasure!

- Corporate News: Professional Services from your software provider SCIA
- Product News: 'EC1994 Composite steel-concrete beam and slab design' in SCIA•ESA PT >>
- The Market: Arabian Canal, an artificial channel of 75 km in Dubai >>
- The winning project: 'School of Bourscheid' by Georges & Theis architectes associés (B)
 - Tips & Tricks: Viewports in SCIA•ESA PT

Corporate News: Professional Services from your software provider SCIA



A distinguishing success factor for a software supplier such as SCIA within a specific market niche is the strength of its back-up services to its clients.

The breakthrough of B.I.M. (Building Information Modelling) strengthens the need for external support by specialists to change the working processes at engineering offices and other companies supported by SCIA.



SCIA Customer Services

SCIA has a young & dynamic team of service engineers in a variety of functions: help desk, training classes, on-line support, website forum Q&A, project consultancy and customisation project services

Interesting to know is that SCIA is deploying integrated webbased information databases to track support interventions up to the development organisation: each call, mail or fax gets the required attention.



More interaction with clients through the Internet will soon be released by SCIA, among them a client product order configurator and an e-learning website.



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We invite you to send your suggestions and ideas on how SCIA can even improve more the quality of its services.

UPDATES

You can find us on

ArcelorMittal and

White Papers:

step-by-step

Nemetschek sign a strategic

agreement on technological

cooperation & promotion of design and modeling software

We kindly invite you to read our

Parametric Modelling, a basic B.I.M. property implemented in

AutoDesign and Parametric

for steel structures. more

Round-trip Engineering

SCIA•ESA PT 3D Modeller

Structural Optimisation Breakthrough technology in SCIA•ESA PT 2008

You can reach our Support

+32 13 35 03 10

Allplan Support +32 13 35 03 15

+32 13 35 03 20

EVENTS

Department directly by phone:

SCIA•ESA PT (CAE) Support

SCIA•Steel (CIM) Support

SCIA participates at "Batimat

stand nr. 5.1 C 9 more ..

SCIA organizes a free 'inspiration day' for the construction world on 13 and 21

November 2007. more

2007" in Paris (F) from the 5th to the 10th November 2007.

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 (\mathbb{D}) Customers can download the following service packs in our free download s

- SCIA•ESA PT 2007.1.078
- ESA-Prima Win 3.100.078
- Allplan 2006.2 3
- \bigcirc Important: If you are a CADS software user, please contact your supplier for obtaining the latest service pack compatible with your release at cads.co.uk

TRAINING

In the following months trainings are organised in our offices of Herk-de-Stad and Arnhem with, among others, the following topics

SCIA•ESA PT Basis course

Allplan Basis course (27 & 28 November 2007) (4 & 5 December 2007)

Allplan Engineering

J.P. Rammant



'EC1994 - Composite steel-concrete beam and slab design' in SCIA•ESA PT

The module esascd.01.01 'composite steel concrete design for buildings' is a module for the use in the structural design or checking of composite beams and slabs, by preparing calculations for their strength, stability and stiffness. This is in

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Formwork shell and reinforcement functions (6 & 11 December 2007)

On demand: SCIA•ESA PT Parametric Design

Tips & Tricks

Here you find all training dates with a programm overview and you can register online

JOBS

 \bigcirc SCIA's customers are invited to add their job vacancies free of charge in our 'SCIA Jobs



Please also check SCIA's Job Openings. Good luck!

GALLERY

\bigcirc Some screenshots of SCIA · Mixbeam



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SCIA USER CONTEST



accordance with EN1994 for buildings and BS5950 Part 3: Section 3.1:1990.

The 'composite steel concrete design' module designs composite beams at the final (composite) stage and at the construction (non-composite) stage (EN1993). It also includes the fire resistance design for composite steel and concrete beams. During 2008 this module will be extended with the design of composite columns.

Main Features:

Design Procedure

The composite design is defined on 2D and 3D steel beam structures All design parameters are introduced according to the SCIA•ESA PT standard through libraries

These libraries are linked to steel beam properties: including slab data, 1D member data, shear connectors, etc.

Loads

Uniform, point and distributed dead or imposed loads may be specified for the construction and final stages according to the SCIA+ESA PT standard. Beam loadings can also be given in terms of area loads by using the new 'load panel with beams' option.

Design Stages

The following stages are considered: 'construction stage' (steel beams only) and 'final stage' (composite).

The loads are individually defined for each stage. The design of the construction stage is enabled with the regular EN1993 design check in SCIA•ESA PT.

On-Screen Results

The calculation results are displayed in the standard SCIA•ESA PT presentation graphics or in a user friendly, self-explanatory explorer-tree type layout. The results are offered in several layers of detail, from summary to in-depth calculation results.

Printed Reports

There are two standard printout options available: detailed and simple page summary

Both can be previewed on-screen prior to sending towards the document or to printing

Fire resistance

It is possible to perform a fire check on the composite section; this is included in the composite steel concrete design.

Features

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- Integrated in SCIA•ESA PT in the composite design tree for integral buildings
- Choice of SCIA•ESA PT steel sections, hot rolled: I-sections, RHS, SHS & fabricated I-sections Slab type options: Choice of lightweight concrete, solid slabs, haunched slabs & hollow core pre-cast units
- •
- Deck profile options: Select from the library, or create your own user-defined sections •
- Choice of Shear Connector types: library of stud types, headed connectors, channels & bar hoops Link with our proven EN1993 & BS2000 steel code check for construction stage design
 - The 'Check' mode checks a preferred beam section(s) or provides a single check option.
- Designs for final & construction stage

Another gigantic building site in Dubai

The emirate is about to create an artificial canal of a length of 75 km through the desert for 11 billion dollars

The construction of the canal will be spread over three years, as announces the promoter of the project, Limitless, a subsidiary company of the holding 'Dubai World'.



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Under the name of "Arabian Canal", the project will transform the harbour area of Jebel Ali into an island; Jebel Ali is a free trade zone, where an airport with 6 runways, "Dubai World Central International Airport" (JXB), currently still under construction, is tipped to become the largest in the world.

The canal, with a width of 150 m and a depth of 6 m, will be able to accommodate boats with a maximum length of 40 m, as stated in an official statement; the excavating works will start in December



"The project will give life to the desert", declared the general director of Limitless, Saïd Ahmad Saïd, adding that he would construct "the greatest project of civil engineering in the Middle East". Arabian Canal is a part of an immense project with a **total cost of 61 billion USD**, this project **also includes the**

construction of "Dubai Waterfront", a residential, commercial and leisure district on a surface of 20.000 hectares costing of 50 billion USD. ▲ top

The winning project: 'School of Bourscheid' by Georges & Theis architectes ociés (B)



At the end of 1994, architect G. Theis, independent associate since March 1984, created the present office.

In January 2004, architect B. Georges (former employee) became an associate of the company that is since then called "B. GEORGES & G. THEIS, architects associés







SCIA Quick Poll

What should we add more to this website? References Software files Tutorials Movies Vote

View Results



The project

construction works for private, public, hospital and city projects as well as for projects in "bio-construction" and

Sarl". Their mission is to design, tender and follow up the

As the number of pupils in Bourscheid will grow considerably over the following years, the



local town council decided to expand the present school infrastructure

The condition was that the expansion had to keep a direct relation with the current building, guaranteeing the architectural specifications and the rural character of the village. The whole complex, the former school and the new building, will form one educational centre that combines the pre-school kindergarten, the infant school and the primary school

The basic principle of the project is that a school needs to be a vivid place that guarantees a double function; the intellectual learning process (a place to study) and the social environment (a place for people to meet and exchange). This double aspect of the school has defined itself architecturally and on spatial level by a double approach, a paradox between the serious character of the schooling and the playful character of the exchange places.



This way the schooling areas and their annexes (classrooms, cloakrooms, hall, ...) are included in three independent buildings in an academic and well-ordered architecture. The cloakrooms and the individual storage rooms, that border the classrooms, are obligatory passages serving as a transition zone between the educational and recreational rooms.



The recreational area or the so-called "meeting and exchange place" (free space, circulation, main hall, ..) have been designed as an open, free and clear space with natural aspects (use of natural stone, rough materials, objects that will get a natural patina, interior vegetation ...) close to the exterior, a space with a playful character using arborescent and fluid forms.

The goal of this recreational area or a reception and distribution centre is to be the liveliest place, a place where the works of pupils are presented, the place to meet children during the playtime. There are two separate play areas, one for the nursery school and one for the elementary school. The sanitary blocks are accessible through the main hall, but they really are a separate part of the architecture.

We invite you to read the complete story with all technical details in the SCIA User Contest book 2007 at page 12 and 13. You can still order a hard copy of this book

Quote of the Jury

"The 3D-model is not only used for the final design, it has also proven its efficiency during the pre-design phase. Even more, the designers could use this 3D-model to explain the structure to all building partners and third parties. The virtual 3D-model serves as a live "scale model" and the integration of curved elements and shapes is a surplus in an educational context, without getting too complex. The use of spotlights and the black background gives this presentation a special twist.

Other nominated projects in the Category 1 'CAD Architecture':

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ACTE 1 s.a. Architectes	Atelier d'Architecture du Centre SARL	SIA s.a
F1 Circuit of Spa-Francorchamps	Institut IFSB	Rehabilitation of a military site

Viewports in SCIA•ESA PT

It is nice to have an isometric view of your structure. But it is even better to see it in different directions.

In Allplan, this option was already available. From now on, this possibility is also available in SCIA•ESA PT. An example, we have the following structure: (See picture 1)

Go to the menu and choose for the option Window



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It is possible to have up to 4 viewports. The graphical output for this number of directions is presented in the following window. (See picture 2)

The result: a clear overview.



Archive Tips & Tricks

About this SCIA eNews

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