

## Essen, Germany

Essen belongs to the 10 biggest cities in Germany. The city was known in the last century as the capital city of coal mining, yet Essen's history dates back to a much earlier age. In the year 2002 Essen has celebrated the 1150th anniversary of the convent and the city. The picture shown is the Golden Madonna, which can be seen in the cathedral treasury chamber, one of the Europe's most valuable church treasures from the Ottonian age.



## Accessibility Essen

Essen can be easily reached from Düsseldorf International Airport by train in only 20 minutes. Detailed information can be found on the website of Essen Tourismus ([www.essen.de](http://www.essen.de)).

## Venue

The University of Essen in Essen will host the meeting during both days. The venue address is:  
University of Duisburg-Essen  
Universitätsstrasse 15, 45141 Essen, Germany

## Accommodation

Please note, that you have to arrange and pay your accommodation yourself. A recommended hotel nearby the Essen University is Hotel Atelier Garni, Niederstrasse 13, 45141 Essen, Germany.  
[www.hotel-atelier.de](http://www.hotel-atelier.de); [hotel-atelier@t-online.de](mailto:hotel-atelier@t-online.de)). A list of other hotels in Essen can be found at [www.essen.de](http://www.essen.de)

## Users Meeting committee

DIANA Users Association

Ane de Boer, Nynke Vollema, Adri Vervuurt

University of Duisburg-Essen

Martina Schnellenbach-Held, Markus Aldejohann,

TNO DIANA BV

Max Hendriks, Giovanna Lilliu

TRI Communication

Wolanda van Willige

## DIANA Users Association

Members of this association are Users of the DIANA software program, interested in numerical mechanics, finite element methods and in development and improvement of DIANA.

The scope of the association is to serve as a meeting forum for exchange of experience with DIANA. It also serves as intermediary with TNO DIANA BV, collecting requirements of the members for further development or improvement, and informing members about updates of the software.

The association organizes regular meetings and workshops, and issues reports and publications on projects and studies conducted with DIANA.

More information at [www.dianausers.nl](http://www.dianausers.nl)



## TNO DIANA BV

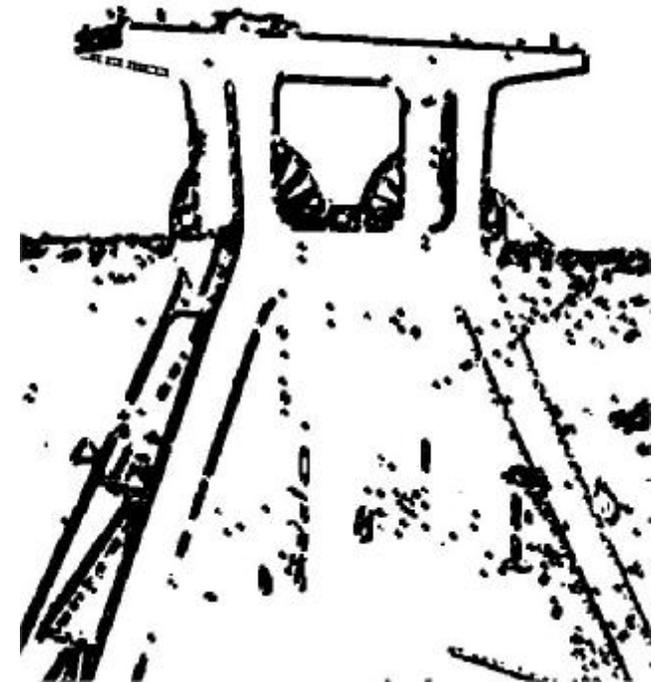
This fully by TNO owned subsidiary develops, markets and supports the DIANA Finite Element Analysis software packages and undertakes customization, consultancy and client training activities on behalf of customers world-wide. The team of TNO DIANA BV has a well-proven track record, stretching back to the 1970's in the delivery of high quality finite element analysis technology to leading engineering-based organisations.

The company is focused on helping customers in civil, structural and petroleum engineering to achieve their goals through the more efficient and effective use of accurate analysis tools.

More information at [www.tnodiana.com](http://www.tnodiana.com)



## FINAL ANNOUNCEMENT



## International DIANA Users Meeting

16-17 March 2006

University of Duisburg-Essen  
Essen  
Germany

## Presentations

### Computer supported knowledge based cooperative work

M. Schnellenbach-Held & M. Hartmann, Institute of Concrete Structures and Materials, University of Duisburg-Essen, Essen, Germany

### Micro-mechanical Analysis of Fiber Reinforced Cementitious Composites using Cohesive Crack Modelling

J. Dick-Nielsen, Department of Civil Engineering, Technical University of Denmark, Lyngby, Denmark

### Composed beam elements – in plane loading

A. van den Bos, ABT, Velp, The Netherlands

### Finite element modelling of steel fibre or synthetic fibre reinforced concrete structures

E. Kanstad and Å.L. Døssland, Norwegian University of Science and Technology, Trondheim, Norway

### Can engineers take up the challenge of digital architecture ?

A. Borgart, Delft University of Technology, Delft, The Netherlands

### Analysis of masonry shear walls and non-load-bearing inner walls with the aid of the finite element method (FEM)

B.G. Kang e.o., Institute of Building Materials Research Aachen University, Aachen, Germany

### Instrumentation, Monitoring and Execution Control of the New Footbridge over Mondego River in Coimbra

M. Pimentel, University of Oporto, Porto, Portugal

### Numerical simulation of volumetric expansion of stone in historical buildings

K. Hoiseth and K.L.K. Chuen, Norwegian University of Science and Technology, Trondheim, Norway

### Steel fibers as reinforcement for precast tunnel segments

G. Tiberti, Department of Civil Engineering, University of Brescia, Brescia, Italy

### DIANA and ESPI: use the best of two worlds for masonry research

A. Vermeltfoort, University of Eindhoven, Eindhoven, The Netherlands

### Shear capacity and compression strut failure of biaxial hollow slabs

M. AldeJohann, Institute of Concrete Structures and Materials, University of Essen, Essen, Germany

## Social Event

The social event will take place on the Thursday late afternoon and evening. The program consists of a bus trip from the University of Duisburg-Essen to Zeche Zollverein, the Coal Mine Industrial Complex (UNESCO-World Heritage since 2001), where we will have a guided tour. In former days the Zollverein mine in Essen was the largest and most modern coal-mining complex in the world.

Afterwards we will close this first day with a dinner.

## Workshop

On Friday afternoon an open discussion will be organized on wishes for future DIANA versions. The main wishes of 2005 were pre/post facilities and robustness. Special focus will come on the integration of DIANA with the new pre/post facilities, coming from MIDAS/FX+. Other future developments will be presented briefly. Time will be scheduled for specific questions or remarks around the use of DIANA.

## REGISTRATION FORM

(also downloadable from [www.dianausers.nl](http://www.dianausers.nl))

Please complete this form, deleting as appropriate, and send to the Meeting Secretary.

Full name > .....  
Job title > .....  
Organisation >.....  
VAT number >... ..< EC only >  
Postal address >.....  
Country > .....  
Phone > .....  
Email > .....  
Special needs >/ disabilities/ dietary / vegetarian /

### SUBSCRIBES TO

< fee members, students & speakers = €200  
< fee non-members = €300  
Fee includes lunch and refreshments  
< additional fee social event = € 90

### METHOD OF PAYMENT

Electronic banking is preferred; details payments see below. We will confirm your registration as soon as your payment is received.

### POSTAL ADDRESS

DIANA Users Association  
P/o Bouwdienst RWS, Attn. A. de Boer  
P.O. Box 20.000, 3502 LA UTRECHT, The Netherlands

### More info: Users Meeting Secretary

JRI COMMUNICATION

Mrs. J. van Willige

Phone > +31 (0)30 285 77 00; Fax > +31 (0)33 465 21 37

Email > [info@dianausers.nl](mailto:info@dianausers.nl)

### ELECTRONIC BANKING(preferred)

Bankname: ABN-AMRO Beuningen  
Payment reference > DIANA Users Meeting 2006  
Address: Julianaplein 103  
NL-6641 CS BEUNINGEN  
Account name: DIANA OntwikkelingsVereniging  
Account number: 517360381  
IBAN code: NL14ABNA0517360381