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Syn4D Prints are presented at:

“**Fascination of Light**” in Brussels to the EU commission, Belgium,  
“**Holography today**” special exhibition in Phaeno Museum, Wolfsburg and  
“**Stadt der Wissenschaft-City of Science**” in Braunschweig, Germany.



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The EU Commissioner from Information Society and Media Directorate, Vivianne Reding, opened last Monday in Brussels, the exhibition **Fascination of Light, March 5 to March 18** Two companies have been invited to present the newest technologies using light: **Syn4D, with 2 synthetic 4Dimensional Prints**, a further development of Holography technique and Philips with its 2D-3D Lenticular based TV system. Originally initiated by the German Minister of Education, the exhibition has been reorganised with new highlights and intends to get further support from the EU commission in order to introduce these new optoelectronics applications and knowledge at schools.

In Taiwan holographic puzzles have been produced for small children. It has been proved that because of the holographic representation to which they have been exposed, the children were then faster to rebuild real puzzle. Books with holographic visualisation have also been produced specially for children age 3 to 6 to introduce them to the concept of multiple realities which shows holographic display. In China, Holograms are presented at school for children started at 6 years.



As explained Odile Meulien Öhlmann, Director of Syn4D to Rosalie Zobel, EU Director of "Components, Subsystems and Applications" the fascination of holographic visualisation works with children as a strong motivation to learn further optics and physics, but also to help understanding geometry in space for mathematic classes, as well as perspective for classes in art. Holographic exhibitions are an inspiring tool of the future: used by artists, Dali was already working with it, it is a media that scientists explore with quantum theory and philosophers use to discuss about perception of reality.



With Syn4D techniques, children can also learn what means the 4<sup>th</sup> Dimension, the time, related to movement. The Holographic Print of Philiber, an 8 years old child drinking a glass of water in front of the camera, also demonstrates that the technique is getting easier to use. Still how many children have access to it? In July 2006 at the International conference on Holography, the industry was complaining that they cannot find designers who can work out images in 3D and 4D, nor engineers having the appropriate knowledge in optics, lasers and chemistry together, and it is even harder to find people having experience with 4D visualisation and multi-media communication. Without education, how to go further? Innovation needs trained people.



**Syn4D holographic prints are presented in the special exhibition “Holography today” in Phaeno Museum, Wolfsburg - March 6 to April 30, 2007.**



The special exhibition is presenting several large format holographic prints among which the Phaeno building, which will stay in the permanent collection of the Museum. The exhibition has been organised by Phaeno in collaboration with Syn4D, a Braunschweig start-up company, which has developed the applications of the holographic print technique. Syn4D has been founded by the artist, Dietmar Öhlmann and the Museum Curator, Odile Meulien Öhlmann.



Holography has a 60 year old history and it is Denis Gabor in 1947 who received the Nobel price for its discovery. Since then many developments have been done, making holography a useful tool in security of documents testing material, measurement and special visualisation. What the new synthetic digital printing process brings is the possibility to use any kind of 3D data, series of digital photos, films sequences, and 3D scan. With this process it becomes possible to print all real and virtual reality in any format we need, and full colours. We can even record animation of a few seconds, making this holographic print an ideal tool for display, eye catcher and educational presentation. Indeed with Syn4D prints the body can experience the image, without being bound to the rhythm of any technical aided device like in video.

The holographic print of Syn4D is made possible by the 1000s small (1x6mmx1,6mm or 0,8mmx0,8mm) holographic dots which make one moving whole. To produce the print in full colours we use three colours lasers, red, blue and green and not cyan magenta and yellow like with ink. To experience the image we just need a halogen spot light or sun light.

### **Highlights of the exhibition.**



Phaeno is one of the main object of the exhibition, a 1x1,50m 4D print also called the spatial shuttle floating above the earth. It has been acquired thanks to the friendship Association of Phaeno Museum. The Phaeno space shuttle is a wonderful demonstration of the technique using 3D Cad program. IAV of Gifhorn, is showing how components of a hybrid vehicle merge to become a hybrid powertrain for a hybrid vehicle. Nature is also presents with a holographic print visualising 365 days recorded day by day with a photographic camera. Other prints show the use of photographic system and scanning device. The exhibition also presents an earlier technique, one of the first large format transmission rainbow hologram produced for the La Villette Museum in Paris, 1978.

Information about holography and education, news and archive of [www.artbridge.info](http://www.artbridge.info)  
About Syn4D Technique and Product [www.syn4D.com](http://www.syn4D.com)