

# HOLOGRAPHY News<sup>®</sup>

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## IHMA New Chairman to Implement New Mission Statement

The International Hologram Manufacturers' Association adopted a new mission statement which expands its sphere of operation to embrace the widest range of commercial holographic activity.

When founded in 1993 the Association's objective was 'to represent and promote the common interests of the worldwide hologram industry'. This statement is enshrined in the legal founding document, so it still underpins the rationale of the organisation. Over the years the Association has tended to concentrate more on the security hologram industry, reflecting the importance of this sector. But with the recent innovations across holography, the IHMA Board examined this fact, and concluded that it should recommend to members a wider remit, which the members adopted at the Annual Meeting in November. The current version is recognised as a long

statement which will need abbreviating, but it states:

'The mission of the IHMA is to support, set standards for and advance holography through promoting and encouraging the understanding, use and development of holograms and holographic technology for:

- the authentication of products and documents
- decoration and illustration
- displays and display systems
- data storage and processing
- energy systems
- environmental improvements
- healthcare
- and other fields that emerge as potential applications of holography for the protection and benefit of individuals and society at large'.

In referring to 'encouraging the understanding' of holography this is more outward looking than the previous short objectives statement, and

by covering the 'development of holographic technologies' it is more forward looking. Philip Hudson, the outgoing Chairman of the Association, told members that implementing this mission statement will be a challenge but that it is necessary for the growth and continuing role of the organisation.

### New Chairman Elected

The members elected Adam Sheer of JDSU as the new Chairman. In his acceptance remarks he thanked Mr Hudson for his commitment to the Association and holography, and recognised this challenge which he hoped to be able to meet, with input and help from members and the association's secretariat.

The other new board member is Alan Lake of API Foils Inc, who was elected as the North American representative.

Contact: [www.IHMA.org](http://www.IHMA.org)

## Greece Plans Holograms of Antiquities

In a move that will gladden the hearts of early holographers who envisaged the use of holograms as a means to record and safely display *objects d'arts* and antiquities, the Greek government has launched a Call for Proposals to make holograms of some of its archaeological treasures for touristic use. It appears that - among other possible uses - the intention is to make holograms which can then be toured so that people across the country - and further afield - can see these objects without subjecting them to the dangers inherent in travelling exhibitions.

The Hellenic Institute of Holography (HIH), a non-profit



*Ultimate Hologram of a souvenir egg shown against the actual object, submitted as part of the HoloCultura project*

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## Technology News

# Alfa's Large Format UV Recombiner

Alfa Machine Co, a leading designer and producer of surface-relief hologram production equipment, has introduced an image recombining which uses UV curing to fix the relief pattern in a curable solution. Louis Pall of Alfa, who designed this recombining, claims that it enhances the benefits of UV-casting of holograms by creating production masters that have greater fidelity in the relief structure.

The recombining will work with masters from 1 mm to 200 x 160 mm (8 x 6"), to make production masters up to 107 x 165 cm (42 x 65"), suitable for wallpaper designs, labels with gutters and eyemarks. It can overlay images and the resulting tile lines (at the join of masters) are so thin as to render a large recombined production

master as effectively seamless. The x and y stage movements of the table are accurate to within .5 µm on their total travel. Production speed is 30 seconds for a 1 x 1" image, 45 seconds for a 6 x 8" image.

The full Alfa UV recombine system, as supplied, includes the recombine machine, imagesetter and software, the UV curing cabinet for the large production master and a small cabinet for the master, a laminator, precision hole puncher, and a magnetic template to hold the metal master. Price also includes installation and training, as well as 25 pieces of master and production master substrate and 1 month's UV solution (at typical throughput).

Contact: [www.alfamach.com](http://www.alfamach.com)

## Holograms of Antiquities...cont'd

organisation established by Alkis Lembessis in 1987, has submitted a proposal titled **HoloCultura** to meet the Call for Proposals requirements. They are proposing to make two kinds of true-colour holograms: Denisyuk holograms recorded using a mobile laser camera, and digital holograms using source material recorded by a robotic travelling camera able to get complete views of antiquities *in situ*. The project will launch with a pilot scheme to record antiquities at Nicopolis, a site in the northwest of the country (where Octavian defeated Antony and Cleopatra), with a budget of €600,000, of which the government will contribute 80%. Its partners in this project are TAURUS SecureSolutions (Lembessis' authentication holograms and equipment company) and AUTOTECH Ltd, a company developing LED lighting, with the Technical Education Foundation of Piraeus as the Research arm of the project.

HIH is working with Geola

(Lithuania) for the holographic systems and silver halide materials, but Lembessis told Holography News that the Bayer photopolymer to be launched next year is of interest for the project. He envisages that in due course there will be small versions of the HoloCultura holograms produced for sale as souvenirs. At the same time, he has been experimenting by commissioning a limited number of Denisyuk full-colour holograms using Ultimate's panchromatic emulsion with impressive results (see photo). He also said that Autotech is developing a lighting system using RGB (red-green-blue) LEDs which will have the lumens output of a 50W halogen bulb, so the HIH will be able to supply low-cost, low-energy lighting systems for the display of the HoloCultura holograms. This will be marketed under the brand name HoloPhos and a prototype is expected to appear before the end of this year.

Contact: [www.hih.org.gr](http://www.hih.org.gr)

## LaserCard...cont'd

that it offers both easy level one - human eye - examination, combined with level two - covert - or machine revealed features. It can also incorporate machine-read digital information.

LaserCard supplies issuers with a

*Crypto SF OMC Encoder*, which is a card personalization box to encode the cardholder data and write the embedded hologram.

Contact: [www.lasercard.com](http://www.lasercard.com)

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