

**PROGRAM**  
**of the**  
**6<sup>th</sup> INTERNATIONAL CONFERENCE**  
**HOLOEXPO-2009**  
**“Holography. Science and practice”**

**Kiev, Ukraine,**  
**International Business Center “RUS”**  
**01-02d July 2009**

**Organizer:**

- Bauman Moscow State Technical University;
- Scientific and Technological Centre of Unique Instrument Making RAS;
- SP “HOLOGRAPHY” (Kiev, Ukraine);
- “Holography-Service” company (Moscow, RF).

**Sponsors:**



- Specialized Enterprise «Holography» (Kiev, Ukraine);
- Scientific Production Company «KRYPTEN» ( RF);
- «Holography Industry», JSC (Minsk, Byelorussia);
- «HoloGrate», JSC (Saint-Petersburg, RF);
- OpSec Security Ltd. (UK) England

**Information sponsor:**



- “Water-mark” magazine (Moscow, RF);
- “The world of cinema’s techniques” magazine (Moscow, RF);
- “Export and import” magazine (Minsk, Byelorussia).

**Supported by:**

- Leading Universities and Academic Institutes AN of Russia and NAS Ukraine;
- The leading holographic and profile organizations of Russia, Ukraine, Byelorussia.

**Scientific and technical problems and questions are offered to discussion on scientifically-practical conference on following sections:**

**Section № 1**

**«Scientific and technical workings out in the area of protective holography»**

The marketing analysis of the market of holographic production for protection against fakes and falsification of documents and the goods; scientific and technical workings out in the area of analogue and digital technologies of reception of protective hologrammes; optiko-electronic devices and complexes of visualisation of the latent images, reading of the coded images from protective hologrammes and their application for the control of authenticity of securities; identification of protective hologrammes; standard base and legal aspects of application of protective hologrammes; holographic packing and its application; the industrial equipment, technological processes and materials for reception of hologrammes.

**Section № 2**

**«Holograms and diffraction optical elements. Methods of calculation and technology of their reception»**

Computer and optiko-electronic technologies in the area of synthesis hologram optics, holograms and diffraction optical elements, their application in the science and in the technician.

**Section №3**

**«Holographic and optical interferometry».**

**Section № 4**

**«Graphic holography and display 3D objects on the basis of optical and holographic methods»**

**Section № 5**

**«Systems of optiko-holographic memory, holographic filters and the correlators registering the environments for holography».**

**PARTICIPANTS OF THE SPECIALIZED  
EXHIBITION OF EQUIPMENT,  
TECHNOLOGY AND MATERIALS FOR HOLOGRAPHY  
HELD WITHIN THE FRAMEWORK OF THE CONFERENCE  
“HOLOGRAPHY – EXPO 2009”  
01 – 02 July 2009**

1) Specialized Enterprise «Holography» (Kiev, Ukraine);

- 2) Scientific&Production Company «Kripto-Print», *Moscow, Russia*;
- 3) «Holography Industry», JSC (Minsk, Byelorussia);
- 4) «HoloGrate», JSC (Saint-Petersburg, RF);
- 5) OpSec Security Ltd. (UK) England.

**30<sup>th</sup> June 2009**

**12.00 – 20.00 Registration of the Conference delegates. Arrival of delegates of the conference. Mounting of the exhibits.**

**1<sup>st</sup> DAY – 01st July 2009**

**09.30 - 10.00 Opening of the International Conference "Holography EXPO-2009"**

**Performances:**

*Chairman of the Forum organizing committee Sergei Odinokov,  
Chairman of the Program committee,  
Director of the Scientific and Technological Centre of Unique  
Instrument Making RAS, the Academician RAS PUSTOVOJT V.I.  
(Moscow, RF).*

*The technical director «Specialized enterprise" Holography "» of  
G.V.Bejlin*

**1. Greetings from:**

- **«Holography Industry», JSC, Byelorussia**
- **Scientific&Production Company «KRYPTEN», Dubna, Moscow region, Russia;**
- **Bogachevskaya E.N., General director JSC " HOLOGRATE ", Saint-Petersburg, Russia;**
- **Commercial enterprises working in the field of practical holography, optical protective technologies and polygraphs;**
- **Scientific and Academic institutes and the organizations of Russia, Ukraine and other countries;**
- **Ian Lancaster, president of the International Association of Manufacturers of Holograms (IHMA), Great Britain.**

Official languages of the Conference and Conference are Russian and English. The synchronous translation from Russian into English and from English into Russian will be provided.

## **1<sup>st</sup> CONFERENCE DAY – 01st July 2009**

**10.00-13.30**

**Section №1**

### **«Scientific and technical workings out in the area of Protective holography »**

*Heads:*

*A.N.Timoshenko the director «Specialized enterprise" Holography "», Kiev, Ukraine.  
L.V.Tanin, chairman of board of directors «Holographic industry», the academician  
of the International engineering academy, Minsk, republic Belarus.*

**1.1) 10.00-10.15 «Features of use holographic demetallization the high resolution  
for protection of bank notes»**

*Tverdohleb I. V., «Specialized enterprise" Holography "», Kiev, Ukraine*

**1.2) 10.20-10.35 «Dynamic moire effect in thin structures»**

*Pogan I.I., «Specialized enterprise" Holography "», Kiev, Ukraine*

**1.3) 10.40-10.55 «Use of spectral marks for identification of hologrammes»**

*Ivanovskiy A.A., «Specialized enterprise" Holography "», Kiev, Ukraine*

**1.4) 11.00-11.15 «Synthesis of digital Fourier hologramme with single side band  
spectrum»**

*Braginets E.V., Kurashov V. N, Kiev National University of name Tarasa  
Shevchenko; Girnyk V. I, company "Optronics", Kiev, Ukraine;*

*Kostjuevich S.A., Institute of physics of semiconductors NASU, Kiev, Ukraine.*

**1.5) 11.20-11.35 «Methods and the equipment for demetallization holographic  
materials»**

*Smyk A.F., "Kripto-print", Moscow, Russia.*

**1.6) 11.40-12.00 «Considerations in selection of embossing substrates for  
diffractive-transmission hologrammes» (the preliminary name which will be  
specified later)**

*P. Dunn, R. Herring, OpSec Security Ltd, UK. (Time is specified taking into account  
simultaneous interpretation from English into Russian language)*

**1.7) 12.05-12.20 «Methods and optiko-electronic devices for the control of  
authenticity of protective hologrammes with the latent images»**

*Odinokov S.B., Bauman Moscow State Technical University, Moscow, Russia*

**1.8) 12.25-12.45 «Name of the report will be named later»**

*Yan Lancaster (Yan Lancaster), the president of the International Association of  
Manufacturers of Holograms (IHMA), the Great Britain.*

*(Time is specified taking into account simultaneous interpretation from English into Russian language).*

**1.9) 12.50-13.05 «Information characteristics of the localised latent Fure-hologrammes»**

*V. Erokhovets, V. Tkachenko, United institute of informatics problems NAS Belarus, Minsk, Byelorussia.*

**13.30- 14.30 Coffee-break.**

**Section № 2**

**«Holograms and diffraction optical elements. Methods of calculation and technology of their reception»**

*Heads of section - professor N.L.Kazanskiy, Institute of Systems of Processing of Images of the Russian Academy of Sciences, Samara, Russia;  
professor A.G.Poleshchuk, Institute of automatics and electrometry  
The Siberian Department of the Russian Academy of Science, Novosibirsk, Russia.*

**2.1) 14.10-14.25 «Modern kinoformnuy optical elements for an average and distant IR-range of lengths of waves»**

*M.A.Gan, «Research-and-production corporation» SOU of S.I.Vavilov », St.-Petersburg, Russia.*

**2.2) 14.30-15.45 «Formation interferential images of superficial electromagnetic waves by means of periodic diffraction structures»**

*Doskolovich L.L., Bezus E.A., the Kazanskiy N.L. Institute of Systems of Processing of Images of the Russian Academy of Sciences, Samara, Russia;*

**2.3) 15.50-15.05 «Operative control of geometrical parameters diffraction micro-and nanostructures a method reflectometry»**

*Doskolovich L.L., the Kazanskiy N.L. Institute of Systems of Processing of Images of the Russian Academy of Sciences, Samara, Russia;*

**2.4) 15.10-15.25 «Correction of aberrations holographic diffraction grating which have been written down by means of cylindrical optics».**

*Bazhanov J.V., Zaharova N.V., scientific research institute Precision instrument making, Moscow, Russia.*

**2.5) 15.30-16.45 «Nanometrology of aspherical surfaces»**

*A.G. Poleshchuk, R.K. Nasyrov, A.V. Matochkin  
Institute of Automation & Electrometry Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russia*

**2.6)15.50-16.05 «Short-wave border of applicability precision reflective holographic optical elements received on thin layers chalcogenide glass-like of the semiconductor»**

*S.N.Koreshev, St.Petersburg State University of Information technologies, mechanics and optics, V.P.Ratushnyj, "Хологрэйт", St.-Petersburg, Russia.*

**2.7) 16.10-16.25 «Comparative analysis of results skalarly - and elektromagnetic-wave researches diffraction structures of various types»**

*G.I.Grejsuh, E.G.Yezhov, S.A.Stepanov, the Penza state university of architecture and building, Penza, Poccu;*

*E.A.Bezus, D.A.Bykov, Institute of systems of processing of images of the Russian Academy of Sciences, Samara, Russia.*

**2.8) 16.30-16.45 «Holographic filters for testing surface regularities»**

*ISLAND I.Barchuk, Taras Shevchenko Kyiv National University, Radiophysics faculty, Kyiv, Ukraine.*

**16.45- 17.00 Break. Coffee-break.**

**Section № 3**

**«Holographic and optical interferometry»**

*The head of section:*

*Vlasov N.G., the professor, the Moscow State Technical University (STANKIN), Moscow, Russia.*

*Taranenko V. B, the Director of the International centre «Institute of applied optics» NAS Ukraine, Kiev, Ukraine.*

**3.1) 17.00-17.15 «Circuitry modern interferometers»**

*N.G.Vlasov, the Moscow State Technical University (STANKIN), Moscow, Russia.*

**3.2) 17.20-17.35 «About new possibilities of application digital holographic interferometry for defectoscopy and not destroying control»**

*Gurevich V. S, Isaev A.M., «Research-and-production firm« the Center of laser technologies », Alma-Ata, Republic Kazakhstan;*

*Gaponov V. E, "Kripton", Snezhinsk, the Chelyabinsk area, Russia;*

*Gusev M. E, RSU of I.Kant, Kaliningrad, Russia.*

**3.3) 17.40-17.55 «Research of resonant characteristics of round plates and details close to them a method holographic interferometry»**

*Makaeva R. H, Karimov A.H., Tsaryova A.M., the Kazanskiy state technical university of A.N.Tupolev (KAI), Kazan, Russia.*

**3.4) 18.00-18.15 «Dynamic phase measurements on interferencial a microscope»**

*Levin G. G, Vishnjakov G. N, Minaev V. L, Lomakin A.G., FSUE scientific research institute OFI, Moscow, Russia.*

**3.5) 18.20-18.35 «Visualization microscopic phase nonuniformities interferential methods»**

*V.A.Babenko, A.F.Malyj, I.J.Fedorov, Physicotechnical institute of Иоффе, St.-Petersburg, Russia.*

**3.6) 18.40-18.55 «Laser interferometer for nanometric testing of spherical and aspherical optics»**

*A.G. Poleshchuk, R.K. Nasyrov, A.V. Matochkin, V.V. Cherkashin*

*Institute of Automation & Electrometry Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russia*

## **2<sup>d</sup> CONFERENCE DAY – 02d July 2009**

### **Section № 4**

#### **«Graphic holography and display of three-dimensional objects on the basis of optical and holographic methods»**

*Heads of section:*

*Stanislav Zaharovas, company "Geola", Vilnius, Lithuania.*

*Shevtsov M. K, all-Russia Scientific Center«SOU of S.I.Vavilova», St.-Petersburg, Russia.*

*Odulov S.G., corresponding member NASU, Institute of physics of National academy of sciences of Ukraine, Kiev, Ukraine*

#### **4.1) 9.30-9.45 «Mobile phone colour holography» ("Reception of colour hologrammes by means of a mobile phone»)**

*Stanislovas Zacharovas, Ramunas Bakanas, company "GEOLA DIGITAL uab", Vilnius, Lithuania.*

#### **4.2.) 9.50-10.05 «Modern holography and museums: possibilities and practice»**

*M.K.Shevtsov, all-Russia Scientific Center «SOI of S.I.Vavilov», St.-Petersburg, Russia., I.Zhente, Holographic studio. Bordeaux, France*

#### **4.3) 10.10-10.25 «Holography"of a museum-educational complex on optics»**

*O.V.Andreeva, S.K.Stafeev, T.S.Judovina, N.G.Anisimova, V.V.Lesnichy, A.S.Zlatov, A.A.Kuleshov, the St.-Petersburg State university of information technologies, mechanics and optics, St.-Petersburg, Russia.*

#### **4.4) 10.30-10.45 «Ultrafast laser scanning by coherent holographic photonic crystals»**

*R.M.Arkipov<sup>1</sup>, V.S.Egorov<sup>1</sup>, I.A.Chekhonin<sup>1</sup>, M.A.Chekhonin<sup>1</sup>, S.N.Bagayev<sup>2</sup>*

*<sup>1</sup>St.Petersburg State University, "Special Appliance Optics SPb", Ulyanovskaja 1, Peterhof, St.Petersburg, 198504 Russia*

*<sup>2</sup>Institute of Laser Physics, Novosibirsk, 630090 Russia*

#### **4.5) 10.50-11.05 «Perceptive monoperspective 3D TV»**

*G.G.Golenko, «Space Vision», Moscow, Russia.*

#### **4.6) 11.10-11.25 «Multicolor images creating by color mixing at single-wave volume hologram reconstruction»**

*Zakharov Yu., Kyuberis A., University of Nizhni Novgorod , Nizhni Novgorod, Russia.*

#### **4.7) 11.30-11.45 «Yu. N. Denisyuk and multivariate holography of standing and progressive interference patterns, which show the optical properties of objects in the wave fields of its scattered radiation»**

*D.I. Staselko, St. Petersburg State University of information technologies, mechanics and optics, St. Petersburg, Russia.*

## **11.50- 12.45 Break.**

### **Section № 5**

#### **«Systems of optiko-holographic memory, holographic filters and the correlators registering the environments for holography»**

*Heads of section - professor P.E.Tverdohleb, institute of automatics and электрометрии the Siberian Branch of the Russian Academy of Science, Novosibirsk, Russia;*

*Kostjuevich A.S. the manager Laboratory of Institute of physics of semiconductors NAS of Ukraine, Kiev, Ukraine*

#### **5.1) 12.50-13.05 «Method of record of multiplex hologrammes on thin registering environment for archival multigigabyte optiko-holographic memory»**

*Odinokov S.B., Verenikina N.M., Lushnikov D.S., Markin V.V., Usovich E, Goncharov A.S., MSTU of N.E.Baumana, Moscow, Russia; Nikolaev A.I., "Holography-service", Moscow, Russia.*

#### **5.2) 13.10-13.25 «Photorefracting materials for two-photon holography"»**

*I.SH.Steinberg, V.V. Shelkovnikov, P.E.Tverdohleb.*

#### **5.3) 13.30-13.45 «Influence of limitation of a dynamic range of the registering environment on characteristics of the holographic foreteller of casual processes»**

*Bekjasheva Z.S., Pavlov A.V., St.-P. HU Information technologies, mechanics and optics, St.-Petersburg, Russia.*

#### **5.4) 13.50-14.05 «Derivatives tioksantenoviy dyes as effective sensitizers of holographic photopolymeric materials»**

*Vasilev E.V., Shelkovnikov V.V., Russkih V.V., Novosibirsk institute of organic chemistry of N.N.Vorozhtsova of the Siberian Branch of the Russian Academy of Science, Pen E.F., Institute of Automatics and электрометрии the Siberian Branch of the Russian Academy of Science, Novosibirsk, Russia.*

#### **5.5) 14.10-14.25 «Low-Power Optical Information Processing by Dynamic Properties of Films with Wild Type and E204Q Bacteriorhodopsin»**

*E.Korchemskaja<sup>1,2</sup>, D.Stepanchikov<sup>3</sup>, S.Balashov<sup>4</sup>, A.Savchuk<sup>2</sup>, N.Burykin<sup>2</sup>  
<sup>1</sup>Institute of Physics, National Academy of Sciencei, Kiev, Ukraine; <sup>2</sup>Institute of Applied Optics, National Academy of Sciences, Kiev, Ukraine; <sup>3</sup>Zhytomir State University, Zhytomir, Ukraine; <sup>4</sup>University of California, Irvine, CA 92697 USA*

#### **5.6) 14.30 - 14.45 «Non-stationary holographic recording in biopolymeric films of DNA»**

*J.D.Lantuh, G.A.Ketsle, S.N.Pashkevich, S.N.Letuta, E.K.Alidzhanov, A.A.Kulsarin, the Orenburg state university, Orenburg, Russia*

#### **5.7) 14.50 - 15.00 «Features multi-colour virtual holographic interferogram»**

*V.I.Redkorechev \**, *I.A.Kulagin \**, *Z.T.Azamat \*\**, *V.S.Gurevich \*\*\**, *M.E.Gusev \*\*\*\**, *J.N.Zaharov \*\*\*\*\**

\* *«Academpribor»*, 100125, Tashkent, Uzbekistan;

\*\* *scientific research institute PF of National University of Uzbekistan*, 10074, Tashkent, Uzbekistan; \*\*\* *«the Center of laser technologies»*, 050062, Almaty, Kazakhstan;

\*\*\*\* *Russian state university of E. Kant*, 236041, Kaliningrad, Russia;

\*\*\*\*\* *Nizhniy Novgorod state university*, 603950, Nizhniy Novgorod, Russia.

## **15.00- 15.45 Break. Coffee-break.**

### **5.7) 15.45-16.00 «The features of formation of holographic image by structures on the base of chalcogenide semiconductors in the corona discharge's field»**

*A.M. Nastas, A.M. Andriesh, V.V. Bivol, A.M. Prisakar, I.N. Slepniov, G.M. Tridukh, Centre of Optoelectronics, Institute of applied physics Moldova Academy of Sciences, Kishinev, Moldova.*

### **5.8) 16.05-16.20 «Application of chalcogenide vitreous semiconductors in holography, optoelectronics and information technologies»**

*A.V. Stronski, Institute of Semiconductor Physics, National Academy of Sciences of Ukraine (Ukraine).*

### **5.9) 16.25 - 16.40 «Diffraction free beam propagation inside holographic periodical structures»**

*M.S.Popova, R.A.Lymarenko, V.B.Taranenko*

*International Center «Institute of Applied Optics», NAS of Ukraine, Kyiv, Ukraine.*

### **5.10) 16.45 - 17.00 «Optical cavity solitons as moveable TWO - and three-stable carriers of information»**

*V.V.Yaparov, V.B.Taranenko, International Center «Institute of Applied Optics», NAS of Ukraine, Kyiv, Ukraine.*

### **5.11) 17.05 - 17.20 «Shack-Hartmann wavefront sensor with replaceable nonlinear holographic lenslet array»**

*V.P.Dan'ko<sup>1</sup>, D.V.Podanchuk<sup>2</sup>, N.S.Sutyagina, V.V.Yakymenko*

*Optical Processing Laboratory, Department of Radiophysics, National Taras Shevchenko University of Kyiv, Ukraine.*

### **5.12) 17.25 - 17.40 «The new method of formation of periodic structures silver polymer-nanochastitsy»**

*L. M.Kohtich, T.N.Smirnova, A.S. Kucenko \**

*Institute of physics NAS of Ukraine, 03680, Kiev-28, Ukraine*

*\*Інститум фізичної хімії ім. Л. В.Писаржевського, Київ, Україна.*

### **5.13) 17.45-18.00 «Off-axis matched filtering in optical-digital correlator»**

*P.V. Yezhov<sup>a</sup>, A.V. Kuzmenko<sup>b</sup>, T.N. Smirnova<sup>a</sup>, L.M. Kokhtych<sup>a</sup>, A.A. Ivanovskyy<sup>c</sup>*

*Institute of Physics, NAS of Ukraine, Kyiv, Ukraine; <sup>b</sup>International Center «Institute of Applied Optics», NAS of Ukraine, Kyiv, Ukraine; <sup>c</sup> «Specialized Enterprise «Holography», Kyiv, Ukraine.*

**5.13) 18.05-18.20 «Novel nonlinear optical composite materials based on metal alkanoate liquid crystals and mesomorphic glasses for dynamic holographic applications»**

*Yu. Garbovskiy \**, *S.Bugaychuk \**, *G.Klimusheva \**, *T.Mirnaya \*\**, *A.Ishchenko \*\*\**

*\*Institute of Physics of NAS Ukraine, Kiev, Ukraine;*

*\*\* Institute of General and Inorganic Chemistry of NAS Ukraine, Kiev, Ukraine; \*\*\*  
Institute of Organic Chemistry, Kiev, Ukraine.*

**Banquet 19.00-23.00**  
**Summarising. Conference closing.**

**POSTER PRESENTATION**  
**01-02d July 2009**

**Poster presentation - Section № 1**

**«Scientific and technical development in the area of protective holography»**

**C.1.1) «Optiko-electronic vektorno-matrix processor for automatic identification of protective hologrammes»**

*S.B.Odinokov, A.JU.Pavlov, MSTU of N.E. Bauman, Moscow, Russia.*

**C.1.2) «Hardware-software complex« ГОЛОИИИД-2 »for the control of authenticity of protective hologrammes with the latent images»**

*S.B.Odinokov, A.JU.Pavlov, D.S.Lushnikov, MSTU of Bauman, Moscow, Russia.*

**C.1.3) «Holographic collimating sight»**

*S.B.Odinokov, M.S.Kovalev, A.N.Solomashenko, Lushnikov D.S., Markin V.V. of MSTU of Bauman, Moscow, Russia.*

**C.1.4) «The Application of interferometer "white light" for measurement of a profile and a roughness of optical details»**

*Vishnjakov G. N, Levina E.J., Minaev V. L, Moiseev N.N., Tselmina I.J., Moscow, Russia*

**C.1.5) «Features of use of hologrammes in protective and constructional functions on an example blister packings of the certificated jewels»**

*Tanin L.V., Moiseenko P. V, Boboreko A.G., Lushchikov M. N.*

*«Holographic industry», Minsk, Belarus*

**C.1.6) «Record of the coded images with the help speclograms»**

*Tannin J.I.B.<sup>1</sup>, Manikalo V.V.<sup>2</sup>, Moiseenko P.V.<sup>1</sup>, Goncharuk A.I.<sup>1</sup>, Boborenko A.G.<sup>1</sup>, Lushnikov M.N.<sup>1</sup>, Ginak S.N.<sup>2</sup>, Kaputerko V.V.<sup>2</sup>, Vasilenok D.<sup>3</sup>, Melnikova E.A.<sup>3</sup>, Tolstik A.L.<sup>3</sup>*

*<sup>1</sup>«Holographic industry», Minsk, Belarus;*

<sup>2</sup> «*Magic of light*», Minsk, Belarus;

<sup>3</sup> *Byelorussian state university, Minsk, Belarus.*

**C.1.7) «Testing of optical methods by multi-level holographic grating»**

*ISLAND I.Barchuk<sup>1</sup>, Y.V.Braginets, O.S.Klimov, Y.A.Oberemok<sup>2</sup>, S.N.Savenkov  
Taras Shevchenko Kyiv National University, Radiophysics faculty, Kyiv, Ukraine.*

**C.1.8) «Organic and inorganic recording medium for registering optical (classical 2D/3D) and digital (computer-synthesised Fresnel CGH) 3D hologrammes»**

*Nadia L. Moskalenko<sup>a</sup>, I. Girnyk<sup>b</sup>, V. Braginets<sup>b, c</sup>, Sergey A. Kostyukevich<sup>a</sup>,  
<sup>an</sup> Institute of Semiconductor Physics NAS Ukraine, Kyiv, Ukraine, <sup>b</sup> OPTRONICS  
Private Company, Kyiv, Ukraine, <sup>c</sup> National Taras Shevchenko University, Kyiv,  
Ukraine.*

**C.1.9) «Features of application of holographic elements for identification of compact discs»**

*A.A.Krjuchin<sup>\*</sup>, S.A.Kostjuevich<sup>\*\*</sup>, A.A.Ivanovo<sup>\*\*\*</sup>*

*<sup>\*</sup>Institute of problems of registration of information HAS of Ukraine, Kiev, Ukraine;*

*<sup>\*\*</sup>Institute of physics of semiconductors of V.E.Lashkareva HAH Ukraine, Kiev,  
Ukraine; <sup>\*\*\*</sup> "Holography", Kiev, Ukraine.*

**C.1.10) «Formation and reading peculiarities of reflective optical marks on the basis of chalcogenide glass for optical security systems»**

*L.I. Muravsky, S.O.Kostyukevych, V. M. Fitio, P.E. Shepeliavyj, T.I.Voronyak  
V. Lashkaryov Institute of Semiconductor Physics, National Academy of Sciences of  
Ukraine, Kyiv, Ukraine*

**Poster presentation - Section № 2**

**«Holographic and diffraction optical elements. Methods of calculation and technology of their reception»**

**C.2.1) «Diffraction on radially-simetrichnyh focusing DOE within the limits of the electromagnetic theory»**

*Haritonov S.I., Kazanskiy N.L., institute of Systems of Processing of Images of the  
Russian Academy of Sciences, Samara, Russia*

**C.2.2) «Research of influence of diameter of a pupil of an eye on bifocal difraktsionno-refraktsionnyh IOL»**

*G.A.Lenkova institute of automatics and электрометрии the Siberian department of  
the Russian Academy of Sciences, Novosibirsk, Russia*

**C.2.3) «New domestic intraocular lens»**

*V.P.Koronkevich, G.A.Lenkova, V.P.Korolkov, I.A.Iskakov. Institute of automatics  
and electrometry the Siberian branch of the Russian Academy of Sciences,  
Novosibirsk, Russia*

**C.2.4) «Laser-induced oxidation and modification of structures of thin metallic films as a method for diffractive micro and nanooptical elements formation»**

*V.P.Veiko, A.G. Poleshchuk, V. P. Korolkov, E.A. Shakhno*

*St.Petersburg State University of Information Technologies, Mechanics and Optics, , St.Petersburg, Russia, Institute of Automation & Electrometry Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russia*

**C.2.5) «Approached analytical description of a light field of the optical correlator with multifocal holographic lens»**

*Seduhin A.G., institute of automatics and electrometry the Siberian Branch of the Russian Academy of Science, Novosibirsk, Russia.*

**C.2.6) «Resonant phenomena at modelling of interaction of regular reliefs with electromagnetic radiation in system with complex argument»**

*G.N.Lukjanov, A.V.Kopyltsov, St.-Petersburg*

**C.2.7) «Holographic photolithography with the use of three-component chalcogenide photoresist»**

*V.I. Min'ko, P.E. Shepelyavyi, I.Z. Indutnyi, O. S. Lytvyn, V.A. Dan'ko.*

*V. Lashkaryov Institute of Semiconductor Physics, National Academy of Sciences of Ukraine.*

**Poster presentation - Section № 3**

**«Holographic and optical interferometry»**

**C.3.1) «Diffraction interferometer for work in white light»**

*V.P.Koronkevich, A.I.Lohmatov, A.E.Matochkin Institute of automatics and electrometry the Siberian branch of the Russian Academy of Sciences, Novosibirsk, Russia*

**C.3.2) «Digital holographic interferometric system»**

*M.S.Popova, R.A.Lymarenko*

*<sup>b</sup>International Center "Institute of Applied Optics", NAS of Ukraine, 10G, Kudryavskaya str., 04053 Kyiv, Ukraine.*

**C.3.3) «Shack-Hartmann wavefront sensor for surface research»**

*M.M.Kotov<sup>1</sup>, V.A.Nikirin, D.V. Podanchuk, N.S. Sutyagina<sup>2</sup>*

*Optical Processing Laboratory, Department of Radiophysics, National Taras Shevchenko University of Kyiv, 64, Volodymyrska st., Kyiv, 01033, Ukraine.*

**C.3.4) «Application digital holographic interferometry for measurement of high-speed deformations with nanometry accuracy"»**

*Gusev M. E, Alekseenko I.V., Voronin A.A., Gurevich V. S.*

**C.3.5) «Fiber optic video microscope»**

*Kalenkov G.S., Kalenkov S.G., Podsonnuy V.A., Moscow State Technical University (STANKIN), Moscow, Russia.*

**Poster presentation - Section № 4**

## **«Graphic holography and display of three-dimensional objects on the basis of optical and holographic methods»**

### **C.4.1) «Ultraspeed holographic processes in quadratic and cubic nonlinear mediums: properties and applications»**

*D.I. Staselko, E.V. Miloglyadov, V.N. Krulyov, St. Petersburg State University of information technologies, mechanics and optics, St. Petersburg, Russia.*

### **C.4.2) «Holography - a philosophical basis and the scientific tool nanotechnology»**

*V.A.Vanin, "Mosoblznak", Fryazino the Moscow region, Russia.*

*B.G.Turuhano (Gatchina); V.A.Shulakov (Minsk).*

## **Poster presentation - Section № 5**

### **«Systems of optiko-holographic memory, holographic correlators and registering environments for holography»**

#### **C.5.1) «Research of discrimination properties of invariant filters with the linear phase factor, realised in a kind Binary peak hologrammes in correlator Vander Ljugta scheme »**

*Evtihiev N.N., Zlokazov E.J., Starikov R.S., MEFI, Moscow, Russia.*

#### **C.5.2) «About approximation of transfer function of hologramme Fourier»**

*Alekseev A.M, Pavlov A.V., St.-P. HU Information technologies, mechanics and optics, St.-Petersburg, Russia.*

#### **C.5.3) «Holographic optical elements on haloid-silver photographic materials»**

*N.M.Ganzherli, S.N.Guljaev, I.A.Maurer, D.F.Chernyh, Physicotechnical institute of A.F.Ioffe of the Russian Academy of Sciences, St.-Petersburg, Russia.*

#### **C.5.4) «Research of properties of difficult structures at repeated record of holographic lattices on gelatinous photoemulsion»**

*N.M.Ganzherli, S.N.Guljaev, I.A.Maurer, D.F.Chernyh, Physicotechnical institute of A.F.Ioffe of the Russian Academy of Sciences, St.-Petersburg, Russia.*

#### **C.5.5) «Formation of communications between words in memory of the person within the limits of holographic model of memory»**

*V.V. Orlov. St.-P. the state university of information technologies, mechanics and optics*

#### **C.5.6) «Recording medium based on azobenzene polymer complex with cobalt for polarization holography»**

*Davidenko I.I., Davidenko N.A., Pavlov V.A, Popenaka A.N., Savchenko I.A., Shumelyuk A.N.\**

*Kiev Taras Shevchenko National University, Kiev, Ukraine*

*\*Institute of Physics NAS Ukraine, , Kiev,*

#### **C.5.7) «Photothermoplastic holographic mediums for near IR spectral range with organic dyes of different ionicity»**

*Davidenko N.A., <sup>1</sup>Ishchenko A.A., Getmanchuk Yu. P., Mokrinskaya E.V., Pavlov V.A., Chuprina N.G.*

*Kiev Taras Shevchenko National University, Kiev, Ukraine;*

*<sup>1</sup>Institute of Organic Chemistry NAS Ukraine, Kiev, Ukraine.*

**C.5.8) «Threshold measurement of two-photon photo-polymerisation via Z-scan»**

*Yuri Boiko, YBBR, Inc., 275 Romulus Private, Ottawa ON, K1K 3Y2, Canada.*

**C.5.9) «Sensitization of photoconductor properties of holographic recording medium based on glycidylcarbazole cooligomers by organic dye »**

*S.L.Studzinsky, N.A.Davidenko, S.V.Dehtarenko, Y.P.Getmanchuk, A.A.Ishchenko\*, A.V.Kozinets, L.I.Kostenko\*\*, E.V.Mokrinskaya, V.A.Skryshevsky, O.V.Tretyak, N.G.Chuprina, Kiev Taras Shevchenko National University, 01601 Kiev, Ukraine*

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**C.5.10) «Synthesis and manufacturing of pure-hologrammes for recognition of objects in dispersive correlators»**

*Rodin V. G, Starikov S.N., MEFI, Moscow, Russia.*

**C.5.11) «Application of optical program for design of holographic speckle-interferometer»**

*Abashkin V.G., Akimova E.A., Engineering faculty, Polytechnic University of Ancona, Italy;*

*Centre of Optoelectronics, Institute of applied physics Moldova Academy of Sciences, Kishinev, Moldova.*

**C.5.12) «Mediums based on carbazole-containing copolymers for holographic and electronic-beam recording»**

*Sergeev S.A., Priskar A.M., Robu S.V., Andriesh A.M., Meshalkn A.Yu., Vlad L.A, Centre of Optoelectronics, Institute of applied physics Moldova Academy of Sciences, Kishinev, Moldova.*

**HELP INFORMATION:**

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