10th International Symposium on Display Holography (ISDH-2015)

Organized by

ITMO University

in collaboration with

Hellenic Institute of Holography

Book of Abstracts

28 June – 03 July, 2015 Saint-Petersburg, Russia We thank our sponsors and partners for the support of the symposium



Saint Petersburg scientific center RAS











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SESSIONS AND CHAIRS:

Opening Session

Hans I. Bjelkhagen (UK) Sergey Stafeev (Russia)

Session 1 History, Culture, and Education

Alec Jeong (USA) Pearl John (UK)

Session 2 Art Concepts and Techniques

Martin Richardson (UK) Jonathan Ross (UK)

Session 3 Recording Materials, Processing

Yves Gentet (France) Michael Shevtsov (Russia)

Session 4 Electronic, Digital, and Computer Generated Holography

V. Michael Bove Jr. (USA) David Brotherton-Ratcliffe (UK)

Session 5 Technical Applications

Boris Turuhano (Russia) Igor Denisyuk (Russia)

Session 6 Color Holography

Hans I. Bjelkhagen (UK) Andreas Sarakinos (Greece)

Session 7 The Business of Holography

Hugues Souparis (France) Frank C. Fan (China)

Session 8 Youth Sessoin & Workshop

Igor Gurov (Russia) Victor Dyomin (Russia) Olga Andreeva (Russia)

The ISDH 2015 will be held in **memoriam of Yuri N. Denisyuk**, the Russian inventor of display holography, who graduated from ITMO University and was a professor at this university for many years.

GENERAL INFORMATION

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Phone: +7 (812) 233 01 55

E-mail: isdh2015@mail.ifmo.ru Web-site: www.isdh2015.ifmo.ru

Conference venue

The ISDH-2015 is being held in Saint-Petersburg, the second largest city of Russia. The International Pulkovo Airport in Saint Petersburg is approximately 30 km from the city center. The ISDH-2015 is located near the historical city center.

Opening of the symposium and sessions will be held in the St. Petersburg Scientific center of the Russian Academy of Sciences.

Address: Universitetskaya emb. 5, St. Petersburg, Russia Opening of the Yu.N. Denisyuk Memorial plaque, Youth Section and Workshops will be held at Cadetskaya line 3 (ITMO University).

Languages

The official language of the Symposium is English.

Exhibition

The exhibition **Magic of Light** will be opened on **Wednesday, 1 July at 18:30**. (14, Birzhevaya Liniya, ITMO University)

GENERAL SYMPOSIUM SCHEDULE

	GENERAL SYMPOSIUM SCHEDULE				
	Mon, 29 June	Tue, 30 June	Wed, 1 July	Thu, 2 July	Fri, 3 July
9:00 9:30	Opening	Session 2. Art	Session 3. Recording	Session 5.	Session 7. The
10:00	ceremony, Greetings	Concepts & Techniques	Materials & Processing	Technical Applications	Business of Holography
10:30	Plenary session		1.100033g		
11:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:30			Session 4.	Session 5.	Closing Remarks
12:00	-1	Session 2. Art Concepts &	Electronic, Digital & CGH	Technical Applications	
12:30	Plenary session	Techniques	- J	p.p	
13:00			Lunch	Lunch	
13:30		Lunch	Lunch	Lunch	
14:00		Lunch			Youth
14:30	Lunch	Yu.N. Denisyuk Memorial plaque opening	Session 4. Electronic, Digital & CGH	Session 6. Color Holography	Session, Workshop
15:00	Session 1. History,	Round table in			
15:30	Culture, and Education	memoriam of Yu. Denisyuk	Coffee Break	Coffee Break	
16:00	Coffee Break	,			
16:30	Session 1. History,	Coffee Break	Session 4. Electronic,	Session 6. Color	
17:00	Culture, and Education		Digital & CGH	Holography	
17:30	Dheterri	Art Forum			
18:00	Photosession	3.5.5.			
18:30				Poster Session	
19:00	Welcome				
19:30	Reception on the boat		Exhibition		
20:00			opening		
21:00				Forest Brown	
21:30				Farewell Party	

SYMPOSIUM PROGRAM

Sunday, June 28

TIME	EVENTS
15.00 – 20.00	Registration
Lobby,staircase	

Monday, June 29

TIME	EVENTS
8.30 – 15.00	Registration (will be available during next two days)
Lobby,staircase	
9.45- 10.00	Opening Ceremony
Grand Hall	Chairs: Hans I. Bjelkhagen (UK), Sergey K. Stafeev (Russia)
10.00 - 10.40	Greetings:
Grand Hall	Vladimir N. Vasilev, rector ITMO Universityча
	Representative of the Governor of Saint-Petersburg
	Representative of the Russian Academy of Sciences
10.10.11.10	Leonid V. Tanin, Holography society of CIS countries
10.40 - 11.10	Plenary Session
Grand Hall	Chairs: Hans I. Bjelkhagen (UK), Sergey K. Stafeev (Russia)
10.45 - 11.10	"HOLOGRAPHY: CULTURE, ART AND INFORMATION TECHNOLOGY", by Alec Jeong (USA) (invited)
11.10 – 11.30	Coffee break
Corridor	
11.30 - 13.45	Plenary Session
Grand Hall	Chairs: Hans I. Bjelkhagen (UK), Sergey K. Stafeev (Russia)
11.30 – 11.50	"FROM WAVE PHOTOGRAPHY TO 3D HOLOGRAPHY AND BEYOND", by Vladimir Markov (USA) (invited)
11.55 - 12.15	"DISPLAY HOLOGRAPHY: A DISAPPOINTING HISTORY BUT A BRIGHT
	FUTURE?", by lan M. Lancaster (UK) (invited)
12.20 – 13.45	Reports from the Nations
13.45 – 15.00	Lunch
15.00 – 16.00	Session 1. History, Culture, and Education
Grand Hall	Chairs: Alec Jeong (USA), Pearl John (UK)
15.00 – 15.20	"HOLOGRAPHY FOR ALL",
	by Pedro Pombo, Emanuel Santos, Carolina Magalhães (Portugal)
15.20 – 15.40	"ADVANCE IN HOLOGRAPHY FIELD IN THE TERRITORY OF THE FORMER SOVIET UNION", by Leonid V. Tanin (Belarus) (invited)
15.40 – 16.00	"IMAGE HOLOGRAPHY IN THE EDUCATIONAL PROCESS OF SAINT- PETERSBURG POLYTECHNICAL UNIVERSITY",
	by Sergey Gulyaev (Russia)

TIME	EVENTS
16.00 - 16.30	Coffee break
Corridor	
16.30 – 17.00	Session 1. History, Culture, and Education
Grand Hall	Chairs: Tung H. Jeong (USA), Pearl John (UK)
16.30 – 16.50	"COLLECTING AND EXHIBITING HOLOGRAMS",
	by Jonathan Ross (UK)
16.50 – 17.10	"OPAL: THE NATURAL PHOTONIC CRYSTAL",
	by Francesco Mazzero
17.10 – 17.40	PHOTOSESSION
18.30 – 20.30	Welcome Reception on the boat

Tuesday, June 30

TIME	EVENTS
9.00- 11.00	Session 2. Art Concepts & Techniques
Grand Hall	Chairs: Martin Richardson (UK), Jonathan Ross (UK)
9.00 – 9.15	"REFLECTIVE HOLOGRAPHY",
	by <u>Maria Isabel Azevedo</u> (Portugal), Martin Richardson (UK), Elizabeth Sandford-Richardson (UK), Luís Miguel Bernardo (Portugal), Helder Crespo (Portugal)
9.15 – 9.30	"RECOVERY OF EXCAVATION SCENE OF YUAN BLUE AND WHITE PORCELAIN THROUGH DIGITAL HOLOGRAPHY",
	by Shuo Wang, Ardeshir Osanlou, Peter Excell (UK)
9.30 – 9.45	"MERGING THE MATERIAL WITH THE IMMATERIAL", by Richard Bruck (USA)
9.45 – 10.00	"COMMUNICATING IN 3D VISIBLE LANGUAGE", by Yin-Ren Chang, Martin Richardson (UK)
10.00 – 10.15	"HOLOGRAPHY AS AN ARCHITECTURAL DECORATION", by Setsuko Ishii (Japan)
10.15 – 10.30	"AN EVALUATION OF AN ART HOLOGRAPHY EXHIBITION: SHOULD ARTISTS CARE WHAT PEOPLE THINK?", by Pearl John (UK)
10.30 – 10.45	"HOLOGRAPHIC 3-D PRINTING IN POLYMERIC MATERIALS",
10.30 - 10.43	by Nadezda Vorzobova, Vera Bulgakova (Russia)
10.45 – 11.00	"WHAT WAS I THINKING WHEN I THOUGHT PRODUCING FOUR BY FIVE FOOT DENISYUK DCG HOLOGRAMS WAS A GOOD IDEA", by John August Muth (USA)
11.00 – 11.30	Coffee break
Corridor	
11.30 – 13.00	Session 2. Art Concepts and Techniques
Grand Hall	Chairs: Martin Richardson (UK), Jonathan Ross (UK)
11.30 – 11.45	"HOLOGRAPHY IN DESIGN",
	by Ray Park, Elena Stoykova, Hoonjong Kang (South Korea)
11.45 – 12.00	"AN INTERACTIVE HOLOGRAPHIC DISPLAY SYSTEM",
	by Martin Richardson, Vivian Suresh Kumar Amos (UK)

TIME	EVENTS
12.00 – 12.15	"HOLOGRAMS IN CAVES",
	by <u>Julio Ruiz</u> , Luis Roves (Spain)
12.15 – 12.30	"MEDICAL 3D DIGITAL HOLOGRAPHIC IMAGING FROM INDIVIDUAL ORGANS TO THE WHOLE HUMAN ANATOMY",
	by Javid Khan (UK)
12.30 – 12.45	"CREATING STEREOGRAMS ON AN iPhone",
	by Patrick Boyd (UK)
12.45 – 13.00	"ARTISTIC HOLOGRAPHY AS A TYPOLOGY BELONGING TO THE VIRTUALLY THREE-DIMENSIONAL ARTS",
	by Nuno Miguel José Janardo (Portugal)
13.00 – 14.00	Lunch
14.00 – 14.30	Opening of the Yu. Denisyuk's Memorial Desk
Cadetskaya line, 3	
15.00 – 16.30	Round table in memoriam of Yu. Denisyuk
Grand Hall	Chair: academician Eugene Aleksandrov (Russia)
16.30 – 16.50	Coffee break
Corridor	
17.00 – 19.00	Art Forum. An opportunity To Voice Your Opinion
Small Hall	Chair: Martin Richardson (UK)

Wednesday, July 1

TIME	EVENTS
9.00- 11.00	Session 3. Recording Materials & Processing
Grand Hall	Chairs: Yves Gentet (France), Michael Shevtsov (Russia)
9.00 - 9.20	"DISPLAY HOLOGRAPHY AND NANOPLASMONICS",
	by Olga Andreeva (Russia)
9.20 – 9.40	"EFFECTS OF NONLINEARITY AND FINITE SPATIAL RESOLUTION OF SILVER HALIDE RECORDING MATERIALS ON THE
	RECONSTRUCTED HOLOGRAPHIC IMAGE",
	by István Bányász (Hungary)
9.40 – 10.00	"HOLOGRAPHIC METHODS OF DIFFUSERS FORMATION ON SILVER HALIDE PHOTOGRAPHIC EMULSIONS",
	by Nina Ganzherli, <u>Sergey Gulyaev</u> , Irina Maurer, Dmitriy Chernykh (Russia)
10.00 – 10.20	"DIRECT LASER RECORDING OF DOT HOLOGRAMS ON AMORPHOUS SILICON FILM",
	by Askar Kutanov, Zamirgul Kazakbaeva (Kyrgyzstan)
10.20 – 10.40	"CHARACTERISTICS OF NRC "KURCHATOV INSTITUTE" MATERIALS
	FOR COLOR HOLOGRAPHIC RECORDING", by Nadezda Vorzobova, Roze Ryabova (Russia)
10.40 – 11.00	"RECORDING MATERIAL "ULTIMATE" FOR DISPLAY HOLOGRAPHY AND HOE's",
	by Yves Gentet (France)
11.00 – 11.30	Coffee break - Corridor
11.30 – 13.00	Session 4. Electronic, Digital & CGH

TIME	EVENTS
Grand Hall	Chairs: V. Michael Bove Jr. (USA), David Brotherton-Ratcliffe (UK)
11.30 – 11.45	"A MORE INTUITIVE APPROACH TO DIFFRACTION IN VOLUME OPTICAL GRATINGS AND HOLOGRAMS",
	by David Brotherton-Ratcliffe (UK) (invited)
11.45 – 12.00	"VISUALIZATION OF COMPLEX MEDICAL DATA USING NEXT-GENERATION HOLOGRAPHIC TECHNIQUES",
10.00 10.15	by Michael Page (Canada) (invited)
12.00 – 12.15	"PROGRESS IN FULL-COLOR HOLOGRAPHIC DISPLAYS BASED AROUND ANISOTROPIC LEAKY-MODE MODULATORS",
	by <u>V. Michael Bove Jr.</u> , Sundeep Jolly, Ermal Dreshaj, Nickolaos Savidis Daniel Smalley (USA)
12.15 – 12.30	"IMAGE FORMATION OF HOLOGRAM RECONSTRUCTION BY LIQUID CRYSTAL ON SILICON DEVICE",
	by <u>Chau-Jern Cheng</u> , Chung-Hsin Wu, Han-Yen Tu, Junchang Li and Jinbin Gui <i>(Taiwan)</i>
12.30 – 12.45	"A FAST OCCLUSION EFFECT CACULATION METHOD BY MULTI- VIEW INVERSE ORTHOGRAPHIC PROJECTION IN 3D HOLOGRAPHIC DISPLAY",
	by <u>Jia Jia,</u> Juan Liu, Guofan Jin, Yongtian Wang (China)
12.45 – 13.00	"INTEGRATED SOLUTION FOR HOE BASED HOLOGRAPHIC PRINTER",
	by <u>Alexander Morozov</u> , Andrew Putilin, Hong-Seok Lee, Vladislav Druzhin, German Dubinin, Sergey Kopenkin, Yuriy Borodin, Sunll Kim, ChilSung Choi (Russia)
13.00 - 14.00	Lunch
10.00 - 17.00	Luitii
14.00 – 15.45	Session 4. Electronic, Digital & CGH Chairs: V. Michael Bove Jr. (USA), David Brotherton-Ratcliffe (UK)
14.00 – 15.45 Grand Hall	Session 4. Electronic, Digital & CGH Chairs: V. Michael Bove Jr. (USA), David Brotherton-Ratcliffe (UK)
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TIME	EVENTS
	Donchenko, Mikhail Kovalev, Vladimir Talalaev (Russia)
15.30 – 15.45	"EXPLOITATION OF DISPLAY HOLOGRAPHY IN MAPPING, FACING NEW CHALLENGES IN THE FIELD OF ENVIRONMENTAL PROTECTION",
	by Ch. Paraschou, A. Sarakinos, T. Alexandridis, G. Zalidis (Greece)
15.45 – 16.00	Coffee break
Corridor	
16.00 - 17.30	Session 4. Electronic, Digital & CGH
Grand Hall	Chairs: V. Michael Bove Jr. (USA), David Brotherton-Ratcliffe (UK)
16.00 – 16.15	"DOUBLE LOOKUP TABLE METHOD FOR FAST LIGHT PROPAGATION CALCULATIONS",
	by Petr Lobaz (Czech Republic)
16.15 – 16.30	"NEW TECHNIQUES IN HIGH-DEFINITION COMPUTER HOLOGRAPHY",
	by <u>Kyoji Matsushima,</u> Yasuhiro Tsuchiyama, Noriaki Sonobe, Sumio Nakahara (Japan)
16.30 – 16.45	"FAST CALCULATION OF CGH FOR RECTANGULAR PATCH MODEL", by Yuji Sakamoto, Yuki Ogihara, Takuya Sugawara (Japan)
16.45 – 17.00	"IMAGE QUALITY EVALUATION OF A COMPUTER-GENERATED PHASE HOLOGRAM",
	by <u>Hiroshi Yoshikawa</u> , Takeshi Yamaguchi (Japan)
17.00 – 17.15	"COMPUTER-GENERATED HOLOGRAM BASED ON LAYERED HOLOGRAPHIC STEREOGRAM",
	by <u>Hao Zhang</u> , Yan Zhao, Liangcai Cao, Guofan Jin (China)
17.15 – 17.30	"DISPLAY AND MEASUREMENT OF COMPLEX FLOW FIELDS BY USING DIGITAL HOLOGRAPHIC INTERFEROMETRY",
	by <u>Jianlin Zhao</u> , Jianglei Di, Jun Wang, Bingjing Wu (China)
18.30 – 21.30	Exhibition opening
Birzhevaya, 14	

Thursday, July 2

TIME	EVENTS
9.00- 11.00	Session 5. Technical Applications
Grand Hall	Chairs: Boris Turukhano (Russia), Igor Denisyuk (Russia)
9.00 – 9.15	"REAL-TIME DYNAMIC HOLOGRAPHIC DISPLAY IN SUPER-FAST LIQUID CRYSTALS TO FUTURE HOLOGRAPHIC 3D TV", by <u>Hongyue Gao</u> , Jicheng Liu, Chao Zeng, Yingjie Yu, Huadong Zheng (China) (invited)
9.15 – 9.30	"HOLOGRAPHIC PHOTOMASKS FOR "GREEN" MICROLITHOGRAPHY", by William Parker, Julie Parker (USA) (invited)
9.30 – 9.45	"ADVANCES IN MULTI-DIMENSIONAL DISPLACEMENT MEASUREMENT USING HOLOGRAPHIC INTERFEROMETRY", by Pramod Rastogi (Switzerland) (invited)
9.45 – 10.00	"HOLOGRAPHIC LINEAR ANGLE NANO MEASURING SYSTEMS", by Turukhano B., Turukhano N. (Russia)

10.00 – 10.15 PULSED LASER HOLOGRAPHY SIMPLIFIED BY DIGITAL PHOTOGRAPHY", by Ed Wesly (USA) 10.15 – 10.30 "HOLOGRAPHIC FLOATING IMAGING SYSTEM WITH LCOS SLM AND LED RECONSTRUCTION LIGHT SOURCE", by Po-Sheng Chiu, Cheng-Huan Chen (Taiwan) 10.30 – 10.45 "IMPROVING THE RECORDING CHARACTERISTICS OF DIFFRACTION GRATINGS IN THE DOT MATRIX HOLOGRAMS", by Akylbek Jeenbekov, K. Zhumaliev, V.Redkorechev (Kyrgyzstan) 10.45 – 11.00 "HOLOGRAPHY FRINGE PATTERNS: SYSTEMS AND APPLICATIONS IN THE STRUCTURAL DIAGNOSIS, DOCUMENTATION AND DISPLAY OF WORKS OF ART", by Vivi Tornari, Anastasia Tsigarida, Varvara Ziampaka (Greece) 11.00 – 11.15 "AUTOMATION THE PROCESS OF CREATION A VIDEO FROM A TIME SEQUENCE OF DIGITAL HOLOGRAMS OF PARTICLES" by Victor Dyomin, Denis Kamenev (Russia) 11.15 – 11.30 Corridor 11.30 – 13.00 Session 5. Technical Applications Chairs: Boris Turukhano (Russia), Igor Denisyuk (Russia) 11.30 – 11.45 "GOLD - ACRYLATE NANOCOMPOSITE AS MATERIAL FOR HOLOGRAPHIC RECORDING", by Julia Burunkova, Igor Denisyuk, Dmitry Zhuk (Russia) 11.45 – 12.00 "HOLOGRAPHIC COLOUR IMAGES OF POTTED ANATOMICAL HUMAN SPECIMENS FOR MEDICAL STUDIES", by Ardeshir Osanlou, Ord Osanlou (IVI) 12.00 – 12.15 "OPTICAL DESIGN OF HOLOGRAM OPTICAL ELEMENT-BASED SEETHROUGH GLASSES" by Javeyol Ryu, Dmitry Piskunov, Mikhail Popov, Nikolay Muravyev (Russia) 12.15 – 12.30 "HOLOGRAPHIC SEE-THROUGH HEAD-MOUNTED DISPLAY", by Vladislav Druzhin, Aleksander Morozov, Andrew Putlin, E.G. Malinovskaya (Russia) 12.30 – 12.45 "PLASMONIC SPECTRAL FILTERS BASED ON ONE-DIMENSIONAL PERIODIC STRUCTURES", by Alexander Zheredey, Sergey Odinokov, Dmitriy Lushnikov, Maria Ruchkma, Evgeni Bezus, Leonid Doskolovich, Andrey Smirnov (Russia) 12.45 – 13.00 "30 OPTICAL INTENSITY MODULATION ON CURVED SURFACES BY OPTIMIZATION METHOD AND ITS APPLICATION ON FABRICATE ARBITRARY PATTERNS", by Qiankun Gao, Ran Tian, Xugang Wang, Juan Liu, Jian Han, Nannan Zhang, Xin Li, Bin Hu, Yongtian Wang (China) 14.00 – 14.20 "ULTRA-REALISTIC IMAGING AND OPTOCLONES", by Hans Bjelkhagen	TIME	EVENTS
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	14.00 – 14.20	·
	14.20 – 14.40	

TIME	EVENTS
	by Michael Finegan, Yves Gentet, Franck Randriamanana (Ireland)
14.40 – 15.00	"THE "F" ADVENTURE", by Alkis Lembessis, Andreas Sarakinos (Greece)
15.00 – 15.20	"EXPERIMENTAL STUDY OF THE METHOD OF RECORDING COLOR VOLUME HOLOGRAPHIC OF STEREOGRAMS ON DIFFERENT PHOTOSENSITIVE MATERIALS ON THE BASE OF THE DIFFUSER WITH A NARROW INDICATRIX OF LASER RADIATION", by <u>Sergey Odinokov</u> , Dmitry Lushnikov, Vladimir Markin, Alexander Zherdev, Ivan Tsyganov, Andrey Smirnov (Russia)
15.20 – 15.40	"METHOD TO MEASURE COLOR REPRODUCTION IN REFLECTION HOLOGRAMS BASED ON A CMOS RGB CAMERA", by Natalith Palacios Ortega, Daniel Velasquez (Colombia)
15.40 – 16.00 Corridor	Coffee break
16.00 – 17.40	Session 6. Color Holography
Grand Hall	Chairs: Hans I. Bjelkhagen (UK), Andreas Sarakinos (Greece)
16.00 – 16.20	"20-YEARS PATH TO PERFECTION: THE LATEST ACHIEVEMENTS IN COLOR HOLOGRAPHY", by Michael Shevtsov, Yves Gentet (Russia)
16.20 – 16.40	"IN SITU RECORDING AND DISPLAYING TRUE COLOR HOLOGRAPHIC OPTICAL CLONES (OPTOCLONES®) OF CULTURAL ARTIFACTS IN MUSEUMS", by Andreas Sarakinos, Alkis Lembessis (Greece)
16.40 – 17.00	"NEXT-GENERATION VISIBLE LASERS FOR HOLOGRAPHY", by Michelle Stock, Peter Andersen, Peter Skovgaard (USA)
17.00 – 17.20	"MOBILE PULSE HOLOGRAPHIC CAMERA GREEF AND ITS APPLICATION IN CULTURE AND EDUCATION", by Michael Shevtsov (Russia)
17.20 – 17.40	"MAKING ANALOGUE COLOUR HOLOGRAMS AT HOME LABORATORY: LESSONS FROM FAILURE AND SUCCESS", by Quan Yuan (China)
18.00 – 19.30 Small Hall, Lobby	Poster Session
21.00 - 23.00 Birzhevaya line, 14	Farewell Party

Friday, July 3

TIME	EVENTS
9.00- 11.20	Session 7. The Business of Holography
	Chairs: Hugues Souparis (France), Frank C. Fan (China)
9.00 – 9.20	"DEMONSTRATION OF PERFECT HOLOGRAPHIC DISPLAY ON COMMERCIAL 4K PLANE DISPLAYER", by Frank Fan, Sam Choi, Chaochuan Jiang (China) (invited)
9.20 – 9.40	"STRIVING TO MAKE A LIVING WITH 3D IMAGES: QUITE A CHALLENGE",

TIME	EVENTS	
	by Pascal Gauchet (France)	
9.40 - 10.00	"SLAVICH HOLOGRAPHIC MATERIALS",	
	by Juliay Beryozkina (Russia)	
10.00 – 10.20	"FROM A START-UP OF THE 80'S TO A MATURE BUSINESS IN	
	HOLOGRAPHY:THE STORY OF HOLOGRAM. INDUSTRIES.", by Hugues Souparis (France)	
10.20 – 10.40	"THE HOLOGRAM FOUNDATION: PROMOTING HOLOGRAPHY AS A	
10.20	COLLECTABLE ART",	
	by Hugues Souparis (France)	
10.40 – 11.00	"REFLECTION VOLUME HOLOGRAPHY: WHERE THE BUSINESS OF	
	BRAND AND PRODUCT SECURITY CAN BE BOTH POSITIVE AND	
	BEAUTIFUL",	
11.00 – 11.20	by Tim Sandford "SCIENCE-INTENSIVE, HIGH-TECH ENTERPRISE CJSC	
11.00 - 11.20	«HOLOGRAPHY INDUSTRY» - AN EXAMPLE OF PUBLIC AND	
	PRIVATE PARTNERSHIP IN THE FIELD OF ANTI-COUNTERFEITING	
	TECHNOLOGY OF DOCUMENTS, SECURITIES AND PRODUCTS	
	BASED ON HOLOGRAPHY IN THE REPUBLIC OF BELARUS"	
	by Leonid Tanin	
11.20 – 11.40	Coffee break	
Corridor		
11.40 – 11.55	Closing Remarks	
12.00 – 17.00	Youth Session, Workshop	
Cadetskaya line, 3	"THE FUTURE OF HOLOGRAPHY IN A DIGITAL AGE",	
	by Javid Khan (UK)	
	"ENGAGING WITH A HOLOGRAPHIC PERSPECTIVE",	
	by Martina Mrongovius (USA)	
	Workshops №1, №2, №3, №4, №5, №6	

Workshops

№1 By Nataliy Andreeva (Russia) and	Recording of display holograms by Yu.N. Denisyuk's method
№2 by Alexandre Escarguel (France)	Upgrade of the pedagogic/popular science tool for holography: the color holography kit
№3 by Victor Dyomin (Russia)	Digital holographic recording of plankton
№4 by Boris Manukhin (Russia)	Holographic interferometry of transparent media during the action of heat sources
№5 By Paramonov Alexandr (Russia)	Recording of high-selectivity hologram optical element
№6 By Nikolay Petrov (Russia)	Simulation of wavefront propagation

Poster Session

Session 1. History, Culture, and Education

- 1. "HOLOGRAPHY AT SCHOOLS", by Pedro Pombo, Emanuel Santos, Carolina Magalhães (Portugal)
- 2. "READING FROM ACADEMICIAN YURY NIKOLAEVICH DENISYUK AT THE ITMO UNIVERSITY".

by Natalia Andreeva, Olga Andreeva, Victor Bespalov, Sergey Kozlov (Russia)

Session 2. Art Concepts & Techniques

- 3. "3D-PRINTING AND HOLOGRAPHY FASCINATING NEW OPPORTUNITIES FOR DESIGNING HOLOGRAMS", by Swann Rack (Germany)
- 4. "ART CONCEPT AND TECHNIQUES USING RAINBOW HOLOGRAM WITH INSTALLATION ART",

by Duck Hee Cho (New Zealand)

5. "HOLOGRAPHIC ART PRACTICE; AN EXPLORATION OF INTERFERENCE", by Arlinda Henderson (USA)

Session 3. Recording Materials & Processing

- 6. "A NOVEL TYPE OF ALL OPTICALLY ADRESSED SPATIAL LIGHT MODULATOR FOR HOLOGRAPIC DISPLAY", by Vera Marinova, Shiuan H Lin, Ren C Liu, Ken Y Hsu (Taiwan)
- 7. "DIRECT RECORDING OF THE SURFACE RELIEF HOLOGRAPHIC GRATINGS", by <u>Andrejs Gerbreders</u>, Andrejs Bulanovs, Kaspars Traskovskis, Janis Teteris (Latvia)
- 8. "HOLOGRAPHIC PROPERTIES OF MATERIALS BASED ON PHOTOPOLYMERS ACRYLATE COMPOSITIONS",

by Nadezda Vorzobova, Vera Bulgakova, Alena Moskalenko, Vasiliy Veselov (Russia)

9. "STUDY OF THERMAL EFFECTS IN HOLOGRAPHIC RECORDING MATERIAL "DIFPHEN", by <u>Boris Manukhin</u>, Sergey Chivilikhin, Galina Vinogradova, Michail Gusev, Olga Andreeva(Russia)

Session 4. Electronic, Digital & CGH

- 10. "ACTIVE LSP BASED STRUCTURE FOR HOLOGRAPHIC 3D VIDEO DISPLAY", by Chuan Shen, Hao Wang, <u>Sui Wei</u> (China)
- 11. "COMPARISON OF READ-OUT OPTICAL SCHEMES FOR HOLOGRAPHIC MEMORY SYSTEMS BASED ON MULTIPLEXED COMPUTER GENERATED 1D-FOURIER HOLOGRAMS", by Alexandr Betin, Vladimir Bobrinev, Sergey Donchenko, Evgenie Zlokazov, Sergey Odinokov, Rostislav Starikov (Russia)
- 12. "COMPUTER GENERATED FOURIER MICROHOLOGRAMS FOR OPTICAL MEMORY

SYSTEM".

by <u>Evgenii Zlokazov</u>, Sergey Odinokov, Aleksandr Betin, Rostislav Starikov, Sergey Donchenko, Nina Verenikina (Russia)

- 13. "A COMPUTER-GENERATED WAVEGUIDE HOLOGRAM FOR NEAR-TO-EYE 3-D DISPLAY", *by* <u>Michael Bove</u>, Sundeep Jolly, Nickolaos Savidis, Bianca Datta, Daniel Smalley *(USA)*
- 14. "DIGITAL HOLOGRAPHIC INTERFEROMETRY AT ANALYSIS OF THERMAL LENS ARISING AT DIODE PUMPING",

by Zakir Azamatov, Nigora Akbarova, Ilya Kulagin, Vyasheslav Redkorechev (Uzbekistan)

- 15. "METHODS OF INTERFEROGRAM FILTRATION FOR INCREASING OF MEASUREMENT ACCURACY".
- by <u>Zakir Azamatov</u>, Nigora Akbarova, Ilya Kulagin, Vyasheslav Redkorechev, Akylbek Zheenbekov (Uzbekistan)
- 16. "FAST CALCULATION METHOD OF COMPUTER GENERATED HOLOGRAM USING RAY TRACING METHOD FOR FOURIER TRANSFORM OPTICAL SYSTEM", by Ryosuke Watanabe, Takuya Sugawara, Yuji Sakamoto (Japan)
- 17. "INTERACTIVE AUGMENTED REALITY BY COMPUTER-GENERATED-HOLOGRAPHY", by <u>Ken Yuh Hsu</u>, Ren Chung Liu, Yi Hsin Huang, Shiuan Huei Lin (Taiwan)
- 18. "QUANTITATIVE PHASE IMAGING TECHNIQUE FOR THE ESTIMATION OF DIGITAL HOLOGRAPHIC DISPLAY SYSTEM",

by <u>Yongjun Lim</u>, Keehoon Hong, Joongki Park, Hyuneui Kim, Hyongon Choo, Jinwoong Kim (South Korea)

19. "HOLOGRAPHIC DATA VISUALIZATION OF FLUID DYNAMICS AND SOLAR IRRADIATION MODELS".

by Tove Noorjahaan Dalenius, Simon Rees, Martin Richardson (Sweden)

20. "HOLOSUITE: AN EXPLORATION INTO HOLOGRAPHIC TELEPRESENCE AND INTERACTION",

by Ermal Dreshaj, Sundeep Jolly, V. Michael Bove Jr. (USA)

- 21. "MEASUREMENT AND RECONSTRUCTION OF THREE-DIMENSIONAL SPECIMEN BASED ON DIGITAL HOLOGRAPHIC INTERFEROMETRY", by Jianglei Di, Xin Chen, Minru Li, Jianlin Zhao (China)
- 22. "ULTRA SLIM SOLUTION FOR COHERENT ILLUMINATION OF HOLOGRAPHIC DISPLAY", by <u>Aleksander Morozov</u>, Andrew Putilin, Hong-Seok Lee, Sergey Dubynin, German Dubinin, Sergey Kopenkin, Yuriy Borodin, Sunll Kim, ChilSung Choi (Russia)
- 23. "SAMPLING CONDITION FOR DIGITAL HOLOGRAPHY", by Konstantin Grebenyuk (Russia)
- 24. "HARDWARE AND SOFTWARE COMPLEX FOR PLANKTON INVESTIGATION AND SETTLING PARTICLES MONITORING IN NATURAL WATER RESERVOIR ", by <u>Victor Dyomin</u>, I. Polovtsev, A. Olshukov and D. Kamenev_(Russia)

- 25. "HOLOGRAPHIC IMAGES WITH PARALLAX EFFECT", by Anatoly Gubarev, Kornilov, G.V., Goncharsky A.V., Goncharsky, A. A., Smirnov, A. V., Chepurnoy A. I., Odinokov S. D., Lushnikov D. S., Markin V.V. (Russia)
- 26. "INNOVATIVE TECHNOLOGY OF COLOR LASER PATTERNING OF METAL PRODUCT FOR DECORATIVE AND APPLIED ARTS",
- by Vadim Veiko, Galina Odintsova, Yulia Karlagina, Roman Yatsuk, Eduard Ageev (Russia)
- 27. "NUMERICAL RECONSTRUCTION OF A FULL PARALLAX HOLOGRAPHIC STEREOGRAM WITH RADIAL DISTORTION",
- by Jiyong Park, Hoonjong Kang, Soonchul Kwon, Seunghyun Lee (South Korea)
- 28. "RECONSTRUCTION OF MULTI-IMAGES ON COAXIAL DEPTH DIRECTION USING COMPUTER HOLOGRAPHY",
- by Sumio Nakahara, Kyoji Matsushima (Japan)
- 29. "HOLOGRAPHIC PRODUCTS DEVELOPMENT AT LUMINIT", by Fedor Dimov (Russia)
- 30. "MICROPRISM ARRAY FOR SECURITY PRINTING APPLICATION", by Vera Balia (Russia)
- 31. "ON THE RELATIVE ACCURACY OF THE PSM AND KOGELNIK MODELS OF DIFFRACTION IN LOSSLESS REFLECTION AND TRANSMISSION HOLOGRAPHIC GRATINGS".
- by Ardeshir Osanlou, David Brotherton-Ratcliffe, Lishen Shi, Peter Excell (UK)
- 32. "THERAPEUTIC EVALUATION OF LIVING CELLS BY DIGITAL HOLOGRAPHIC MICROSCOPY",
- by Chung-Hsin Wu, Chau-Jern Cheng, Xin-Ji Lai, Shuenn-Jyi Sheu (Taiwan)
- 33. "ATTEMPT TO CREATE HOLOGRAPHY IMAGE OF THE AURORA", by <u>Sergey Chernouss</u>, Yves Gentet, Michael Shevtsov (Russia)
- 34. "SEE-THROUGH GLASS BASED ON HOLOGRAM OPTICAL ELEMENT", by Jaeyeol Ryu, Andrey Putilin (Russia)
- 35. 21. RESEARCH ON FIELD OF VIEW EXPANSION IN OFF-AXIS PUMP-PROBE FEMTOSECOND DIGITAL HOLOGRAPHY
- by Chipegin A.A., Putilin S.E., Petrov N.V. (Russia)

Session 6. Color Holography

- 36. "RECORDING VOLUMETRIC COLOR HOLOGRAMS ON TWO-LAYER HOLOGRAPHIC MATERIAL",
- by Igor Shevkunov, Yulia Vavilova, Ludmila Selyavko, Igor Vaskov, Nikolay Petrov (Russia)