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18th International Congress on Photonics in Europe

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ICM-International Conference Centre Munich, Germany

17-21 June 2007

Biomedical Optics

European Conferences on

Stefan Andersson-Engels, Lunds Tekniska Högskola (Sweden)

Welcome!

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European Conferences on Biomedical Optics (ECBO) bring together scientists,

The use of optical technologies and methods for biomedical applications in

diagnostics and therapeutics has emerged as a major research field. The

engineers, and clinicians from a variety of disciplines who are engaged in the development and application of optical science and photonic technologies to

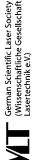
problems in biomedicine.



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medicine, or clinical health care. This biennial meeting is jointly sponsored by

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Society of America (OSA) and will be co located with Laser Munich 2007 SPIE—The International Society for Optical Engineering and the Optical

The scope of this meeting will range from basic research and instrumentation

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Program Chairs:

European Optical Society



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Conf. 6627 Optical Coherence Tomography and Coherence Techniques (OCT) (Andersen, Chen), pp. 6-26	d Coherence Technique	is (OCT) (Andersen, Chen), pp. 6-26	Fitzmaurice), pp. 6-32	
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Opening Remarks and Plenary Session

Room 5

Sunday13.00 to 15.00

13.00 to 13.10

Welcome Remarks Wolfgang Drexler, Cardiff Univ. (United Kingdom)

Mary-Ann Mycek, Univ. of Michigan (United

13.10 to 13.20

Presentation of SPIE Educator Award Brian Culshaw, Univ. of Strathclyde (UK)

13.20 to 14.10 High Speed and Ultrahigh Resolution Optical Coherence Tomography



James Fujimoto,
Massachusetts Institute of
Technology (United States)

Optical coherence tomo-graphy (OCT) is an emerging imaging modality which enables high-speed, ultrahigh resolution, cross-sectional imaging of tissue pathology. Recent advances

provide micron scale, cellular resolution as well as dramatic improvements in speed, enabling three dimensional structural and functional imaging. This presentation discusses advances in OCT technology and biomedical applications.

14.10 to 15.00 A New Light on Bioscience



Kishan Dholakia, The Univ. of Saint Andrews (United Kingdom)

Photonics is playing an ever increasing role in the biosciences. I will discuss the emerging technique of optical micromanipulation for new studies in biology and cell sorting. Light may achieve much more:

carefully engineered light fields may permit therapeutic agents to be delivered to cells at will and also extract key information via Raman spectroscopy.

Poster Sessions

Monday and Tuesday15.00 to 16.00 Poster sessions will be held Monday and Tuesday from 15.00 to 16.00 on the ground floor and first level of the ICM. Each session will represent a different set of posters. See pages 14–15 for Monday Poster Session. See pages 22–25 for Tuesday Poster Session. Timing and location differ for Conference 6633. See conference program for details.

Poster Authors

Please set up posters on the morning of your session by the AM coffee break. Poster viewing will be available all day, You are required to stand by your poster during the poster session to discuss it with session attendees. Please remove your poster following the poster session. Posters which are left on the boards after the poster session concludes will be discarded.

Breakfast with the Experts – A Student Networking Event

Welcome Reception

Tuesday19.30 to 21.00

Registered attendees are invited to participate in this reception at the Paulaner Brewery in Munich. Guests of registered attendees may attend by purchasing tickets at the registration desk, €35, if space available.

General Information

Registration

Location: ICM - Entry Lobby

Coffee Breaks

Ground Level Foyer

Sunday17.00 to 17.30	
Monday 10.00 to 10.30 and 16.00 to 16.30	
Tuesday 10.00 to 10.30 and 16.00 to 16.30	
Wednesday-Thursday10.00 to 10.30	

Audiovisual Equipment

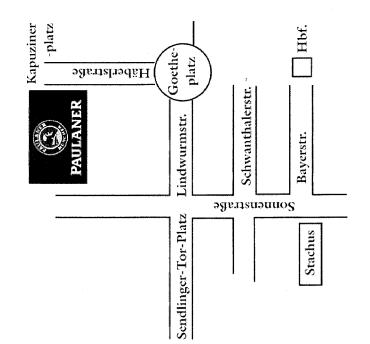
Presentations will be preloaded by the company M-Events in Munich, Germany, Authors will be contacted by M-Events with instructions for uploading meeting presentations and posters. The meeting rooms will contain the relevant equipment to carry out a centralised screening process. Any questions regarding compatibility would need to be directed to m-Events.

Directions to Welcome Reception from ICM

The Welcome Reception will be held at the Paulaner brewery in Munich.

By public transport: Take local train to Marienplatz, then change into U3/U6 in direction of Fuersternied West or Klinikum Gnosshadem. Get off at stop "Goetheplatz". From there walk through Häberlstrasse; 2 mins on foot.

By Car: Go towards city centre, railway station, middle ring, Sendlinger-Tor-Platz, Lindwurmstrasse to Goetheplatz, turn left into Häberlstrasse (straight across fro the employment office)



About Munich

Munich, "the city with a heart," is the capital of Bavaria, and has established itself as Germany's high-tech hub (Silicon Bavaria) and is one of the most important industrial and economic centers in the European community. It boasts of such hitech corporations as BMW and Daimler-Chrysler Aerospace. In addition to being the country's leading university center and hub for insurance, banking, electronic, and mechanical engineering, Munich offers its visitors shopping, music, art, gournet restaurants, beer gardens, outdoor cafes, ethnic restaurants, popular night-spots, grand cathedrals and opulent palaces.

For more information on Munich and the surrounding area, please refer to the following

www.tyzo.com/europe/germany/munich/ www.munichfound.de/

Hotel Accommodations

Laser / Optical Metrology 2007 provides links to accommodations in Munich and near the Munich International Conference Centre. You can use their online directory to search for hotels and make reservations. There are hotels in all price ranges and locations for you to select from.

To search the Directory, please see: http://www.world-of-photonics.net/link/en/ 16211399

The following is a sampling of available hotels, Quoted travel times to the International Conference Centre are approximate using public transporation.

NH Munchen Neue Messe *****/5 minutes http://www.nh-hotels.com

253 rooms, restaurants, bistro/bar, fitness area, sauna, steam bath, solarium and parking Located near the Munich fairgrounds with connections to the centre of Munich, airport and

the main train station. Standard Room prices from €110 Tel. +49.89.993450 Fax. +49.89.99345400

nhmuenchenneuemesse@nh-hotels.com

Hotel Excelsior **** / 25 minutes http://www.axcelsior -muenchen.de Great location in the city, near Hauptbanhof station and on the direct Ubahnline to the Messe.. Price per single room: €155 to €200 Double room €200 to €280 E137 0: Fax 49 (0) 89 55 137 122 Excelsior@gisel.hotels.de

€99 Tel: 49 (0) 89 551390; Fax: 49 (0) 89 593403

Participants must make their own determination of suitability considering price and location. Each hotel will determine when they will accept reservations for this event. Listed rates are approximate at time of publication and are subject to change without notice.

Student Housing Accommodations

Discounted accommodations for students are available in Munich. Please also refer to the following web site for additional information about available hostels:

Munich Hostels http://www.hostelmunich.com/ CVJM Munchen (YMCA) http://www.cvjm-muenchen.org/english/ index.html

Euro Youth Hostel http://www.euro-youth-hotel.de Haus International http://www.haus-international.de/gb/index/htm

Transportation from Airport to How to Reach the ICM — International Congress City Centre

The Franz Josef Strauss Airport (MUC) is located 17 miles (27 km) northeast of the Centre of Munich. Please refer to the Munich International Airport website for more detailed information: http://www.munich-airport.de/ENInidex.html

Taxi: Taxis are available outside the airport terminal. The cost is high, approximately £40, and the trip will take 30-45 minutes to the Centre of Munich.

Train: The Airport Rapid Transit Trains leave for the Centre of Munich frequently. Stations Marienplatz and Hauptbahnof (central railway Station) are the stops in the Centre. The trip will take 30–40 minutes and the cost is approximately E8. Follow the signs as you leave the customs area. Bus: during the international trade fair, a special Trade Fair Shuttle Bus Service operates between Munich Airport and the ICM. The busses run at 30 minute intervals non-stop from the airport to the trade fair grounds. This service is free of charge upon presentation of a valide trade fair admission ticket, which can be obtained either at the trade fair information counter in the central area of the Munich airport or on the bus. Otherwise, the fair is approximately £8 for a single and for a return journey. The journey takes about 35 minutes, depending on volumes of traffic.

Travel Information

At Munich Central Station take the underground U2. The journey to the trade fair grounds takes about 17 minutes. Please refer to the Laser 2007 website for more detailed information, http://www.world-of-photonics.net/link/en/16211399 Transportation from Munich City Centre to ICM — International Congress Centre München

The ICM is about 30-45 minutes from downtown Munich.

Free Public Transport

All registered conference attendees are eligible to use all Munich City Transport (MW- urban railway, underground, trams, and buses) and Laser Airport shuttle by presenting a corresponding ticket together with a conference entrance pass. Passes will be provided onsite with registration.

For the most current information about all transport options, schedules, and prices, please visit: http://www.munich-airport.de/EN/Areas/Consumer/Verkehrsanbindung/index.html

Conference 6626

Sunday-Monday 17-18 June 2007 Proceedings of SPIE Vol. 6626

Molecular Imaging (MI)

Conference Chairs: Kai Licha, Bayer Schering Pharma AG (Germany); Vasilis Ntziachristos, Harvard Medical School and Massachusetts General Hospital (USA) Program Committee: Samuel Achilefu, Washington Univ. in St. Louis (USA); Christoph Bremer, Univ. Münster (Germany); Markus Rudin, ETH Zürich (Switzerland); Bertrand Tavitian, CEA/INSERM (France); Gooitzen M. van Dam, Groningen Univ. Medical Ctr. (Netherlands); Andreas Wunder, Charite Berlin (Germany); Giannis Zacharakis, Foundation for Research and Technology-Hellas (Greece); Gang Zheng, Univ. of Toronto (Canada)

Conference 6627

Sunday-Tuesday 17-19 June 2007 Proceedings of SPIE Vol. 6627

Optical Coherence Tomography and Coherence Techniques (OCT)

Conference Chairs: Peter E. Andersen, Technical Univ. of Denmark (Denmark); Zhongping Chen, Univ. of California/Irvine (USA)

(Cyprus); Adrian G. Podoleanu, Univ. of Kent (Netherlands); Julia Welzel, General Hospital Augsburg (Germany); Yoshiaki Yasuno, Univ. Champaign (USA); Wolfgang Drexler, Cardiff Vicolaus Copernicus Univ. (Poland); Michael (Russia); Ton G. van Leeuwen, Univ. Twente Massachusetts Institute of Technology (USA) Univ. (United Kingdom); James G. Fujimoto at Canterbury (United Kingdom); René-Paul Christoph K. Hitzenberger, Medizinische Salathé, École Polytechnique Fédérale de Larsen, Univ. of Copenhagen (Denmark); Jniv. Wien (Austria); Andrzej Kowalczyk, Program Committee: Jennifer K. Barton, Shakhova, Institute of Applied Physics The Univ. of Arizona (USA); Stephen A. (Netherlands) and Univ. of Amsterdam Constantinos Pitris, Univ. of Cyprus Boppart, Univ. of Illinois at Urbana-Lausanne (Switzerland); Natalia M. of Tsukuba (Japan)

Conference 6628

Tuesday-Thursday 19-21 June 2007 Proceedings of SPIE Vol. 6628

Diagnostic Optical Spectroscopy

Conference Chairs: Dietrich Schweitzer, Friedrich-Schiller-Univ. Jena (Germany); Maryann Fitzmaurice, Case Western Reserve Univ. (USA)

Program Committee: Raff Brinkmann, Univ. zu Lübeck (Germarny); Karsten König, Fraunhofer-Institut für Biomedizinische Technik (Germany); Junle Qu, Shenzhen Univ. (China); Georges A. Wagnières, École Polytechnique Fédérale de Lausanne (Switzerland)

Conference 6629

Tuesday-Thursday 19-21 June 2007 Proceedings of SPIE Vol. 6629

Diffuse Optical Imaging in Tissue (DOI)

Conference Chairs: Brian W. Pogue, Dartmouth College (USA); Rinaldo Cubeddu, Politecnico di Milano (Italy) Program Committee: Simon R. Arridge,
Univ. College London (United Kingdom);
Hamid Dehghani, The Univ. of Exeter (United Kingdom);
Univ. (USA): Rainer Burlescher, Columbia Univ. (USA): Rainer Macdonald,
Physikalisch-Technische Bundesanstalt (Germany); Eiji Okada, Keio Univ. (Japan);
Henricus J. C. M. Sterenborg, Univ. of
Rotterdam (Netherlands); Jean-Michel
Tualle, Ctr. National de la Recherche
Scientifique (France)

Conference 6630

Sunday-Monday 17-18 June 2007 Proceedings of SPIE Vol. 6630

Confocal, Multiphoton, and Nonlinear Microscopic Imaging (CMI)

Conference Chairs: Tony Wilson, Univ. of Oxford (United Kingdom); Ammasi Periasamy, Univ. of Virginia (USA)

Program Committee: Alberto Diaspro, Univ. degli Studi di Genova (Italy); Daniel L. Farkas, Cedares-Sinai Medical Ctr. (USA); Hans C. Gerritsen, Univ. Utrecht (Netherlands); Enrico Gratton, Beckman Laser Institute and Medical Clinic (USA); Stefan W. Hell, Deutsches Krebsforschungszentrum (Germany); Karsten König, Fraunhofer-Institut für Biomedizinische Technik (Germany); Jerome Mertz, Boston Univ. (USA); David W. Piston, Vanderbilt Univ. (USA); Peter T. C. So, Massachusetts Institute of Technology (USA); Ernst H. K. Stelzer, European Molecular Biology Lab. (Germany); Sunny Xie, Harvard Univ. (USA)

Conference 6631

Sunday-Tuesday 17-19 June 2007 Proceedings of SPIE Vol. 6631

Novel Optical Instrumentation for Biomedical Applications (NOI)

Conference Chair: Christian D.
Depeursinge, École Polytechnique Fédérale de Lausanne (Switzerland)

Conference 6632

Monday-Wednesday 18-20 June 2007 Proceedings of SPIE Vol. 6632

Therapeutic Laser Applications and Laser-Tissue Interactions (TLA)

Conference Chair: Alfred Vogel, Univ. zu Lübeck (Germany)

Hubert van den Bergh, École Polytechnique Fédérale de Lausanne (Switzerland); Zhenxi Univ. Ulm (Germany); **Giulio Jori**, Univ. degli Photomedicine (USA); Michael C. Mrochen Technik (Germany); Holger Lubatschowski Univ. of Leeds (United Kingdom); Heyke C. ETH Zürich (Switzerland); Günther Paltauf, Karl-Franzens-Univ. Graz (Austria); Ronald Sroka, Ludwig-Maximilians-Univ. München Univ. Bern (Switzerland); Raimund Hibst, Lübeck GmbH (Germany); Martin Frenz, Laser Zentrum Hannover e.V. (Germany); Program Committee: Stanley B. Brown, Fraunhofer-Institut für Biomedizinische Maximilians-Univ. München (Germany); Diddens, Medizinisches Laserzentrum Studi di Padova (Italy); Karsten König, (Germany); Herbert G. Stepp, Ludwig-**Zhang**, Xi'an Jiaotong Univ. (China) Dieter Manstein, Wellman Ctr. for

Conference 6633

Monday-Wednesday 18-20 June 2007 Proceedings of SPIE Vol. 6633

Biophotonics 2007: Optics in Life Science (BOLS)

Conference Chair: Jürgen Popp, Friedrich-Schiller-Univ. Jena (Germany)

Cochair: Gert von Bally, Univ. Münster (Germany)

fuchin, Saratov State Univ. (Russia); Brian C. Krebsforschungszentrum (Germany); Karster Sauer, Univ. Bielefeld (Germany); Colin J. R. Molecular Biology Lab. (Germany); Valery V. Harvard Univ. (USA); Francesco S. Pavone, e Ber, Lab. d'Electronique de Technologie Biomedizinische Technik (Germany); Pierre (Singapore); Ernst H. K. Stelzer, European (Switzerland); Paul M. W. French, Imperial College London (United Kingdom); Jerem Chiou, National Yang-Ming Univ. (Taiwan); C. Hebden, Univ. College London (United Jniv. degli Studi di Firenze (Italy); Markus Program Committee: Martin L. Bennink, de l'Information (France); Eric D. Mazur, Jniv. Twente (Netherlands); Arthur E. T. Sheppard, National Univ. of Singapore Polytechnique Fédérale de Lausanne Kingdom); Stefan W. Hell, Deutsches Christian D. Depeursinge, École Wilson, Univ. of Toronto (Canada) König, Fraunhofer-Institut für

Sunday 17 June • 15.30 to 17.00

Conf. 6626 (MI)	Conf. 6627 (OCT)	Conf. 6630 (CMI)	Conf. 6631 (NOI)
	Plenary Session High Speed and Ultrahigh Resolution Optical Coherence Tomography, J. G. Fujimoto, Massachusetts Institute of Technology (USA) A New Light on Bioscience, K. Dholakia, Univ. of St. Andrews (United Kingdom)	ree Tomography, SA) Ideaws (United Kingdom)	
SESSION 1 Room 3 Sun. 15.30 to 17.00	SESSION 1 Room 5 Sun. 15.30 to 17.00	SESSION 1 Room 4A Sun. 15.30 to 17.00	SESSION 1 Room 11 Sun. 15.30 to 17.00
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Coffee Break 17.00 to 17.30

Conference 6630 continues page 9.

Sunday 17 June • 17.30 to 18.30

Conf. 6626 (MI)

SESSION 2

Room 3 Sun. 17.30 to 18.30

Advances in Bioluminescence and Fluorescence Imaging I

Chair: Vasilis Ntziachristos, Massachusetts General Hospital (USA)

17.30: Three dimensional bioluminescence tomography (Invited Paper), H. Dehghani, The Univ. of Exeter (United Kingdom), B. W. Pogue, S. C. Davis, Dartmouth College (USA); N. S. Patterothy Claradis, Canoer Cir. (Canada)

18.00: Post mortem evaluation of a new approach

for quantitative bioluminescence imaging in small animals, D. C. Comea, Juravinski Cancer Ctr. (Canada) and McMaster Univ. (Canada); T. J. Farrell, M. S. Patterson, Juravinski Cancer Ctr. (Canada). [66:26-07] 18.15: Spectral unmixing of multi-color tissue specific in vivo fluorescence in mice, G. Zacharakis, R. Tavicchio, A. Garofalakis, S. Psycharakis, C. M. Mamalaki, J. Ripoll, Foundation for Research and Technology-Hellas (Greece).......[66:26-08]

Conference 6626 continues page 10.

Conf. 6627 (OCT)

Room 5 Sun. 17.30 to 18.30

SESSION 2

Clinical and Pre-Clinical Applications of

Chair: Julia Welzel, General Hospital Augsburg (Germany)

17.30: Three-dimensional Fourier-domain optical coherence tomography of alveolar mechanics in stepwise inflated and deflated isolated and perfused rabbit lungs. A. Krueger, L. Krels, S. Meissner, M. Wendel, A. R. Heller, T. Lambeck, T. Koch, E. Koch, Technische Univ. Dresden (Germany)

17.45: Diagnostic potential of optical coherence tomography in non-melanoma skin cancer: a clinical study, M. Mogensen, Univ. of Copenhagen (Denmark); L. Thrane, P. E. Andersen, Technical Univ. of Denmark (Denmark); G. B. E. Jemec, Univ. of Copenhagen (Denmark); G. B. E. Jemec, Univ. of Copenhagen (Denmark)

18.00: In vivo and 3D visualization of coronary artery development by optical coherence tomography. L. Thrane. Technical Univ. of Demnark (Denmark); V. Morozi, Medizinische Hochschule Hannover (Germany); J. Männer, Georg-August-Univ. Göttingen (Germany); F. Bedersen, Technical Univ. of Denmark (Denmark); S. Mottl-Link. Deutsches Krebsforschungszentrum (Germany); H. E. Larsen, P. E. Andersen, Technical Univ. of Denmark (Denmark); A. Wessel, T. M. Yelbuz, Medizinische Hochschule Hannover (Germany); B. Macharek (Germany); H. B. Larsen, P. E. Andersen, Technical Univ. of Denmark (Denmark); A. Wessel, T. M. Yelbuz, Medizinische Hochschule Hannover (Germany); 68627-08]

18.15: Ultrahigh-speed optical coherence tomography imaging and visualization of the embryonic axian heart using a buffered Fourier domain mode locked laser, M. W. Jenkins, Case Western Reserve Univ. (USA), D. C. Adler, Massachusetts Institute of Technology (USA); R. Huber, Massachusetts Institute of Technology (USA); F. G. Rothenberg, Univ. of Cincinnati (USA), M. Watanabe, D. L. Wilson, Case Western Reserve Univ. (USA), J. G. Fujimoto, Massachusetts Institute of Technology (USA); A. M. Rollins, Case Western Reserve Univ. (USA), J. G. Fujimoto, Massachusetts Institute of Technology (USA), A. M. Rollins, Case Western Reserve Univ. (USA), J. (USA)

Conference 6627 continues page 10.

Conf. 6630 (CMI)

SESSION 2

Room 4A Sun. 17,30 to 18,30

Fluorescence Lifetime Imaging Microscopy

Chair: Ammasi Periasamy, Univ. of Virginia (USA) 17.30: Multi-wavelength multiphoton FLIM with direct detection, W. Becker, A. Bergmann, Becker & Hickl GmbH (Germany)

17.45; Full photon information data structure applied to laser scanning microscopes enabling FLIM, FRET, and FCS data analysis, U. Ofrmann, B. Krämer, F. Koberling, PicoQuant GmbH (Germany) (6530-08)

18.00: Microscopic fluorescence lifetime and hyperspectral imaging with digital microminror filluminator, A. Bednarklewicz, M. B. Bublifd, M. P. Whelan, Joint Research Ctr. (Italy). [6630-09]

18.15: Development of a TIRF-FLIM microscope for biomedical applications, P. Blandin, S. Levéque-Fort, F. P. H. Druon, M. Hanna, P. M. Geoges, Univ. Paris-Sud II (France); R. Briandet, Institut National de la Recherche Agronomique (France); Z. Lenkei, Ecole Suberieure de Physique et de Chimie Industrielles (France); M. Fontaine-Aupart, Univ. Paris-Sud II.

Conference 6630 continues page 10.

Conf. 6631 (NOI)

Room 11 Sun. 17.30 to 18.10

SESSION 2

Photoacoustics II

Chair: Christian D. Depeursinge, École Polytechnique Fédérale de Lausanne (Switzerland) 17.30: Photoacoustic tomography using a fiber based Fabry-Peor interferometer as an integrating line detector and image reconstruction by model-based time reversal method, H. Grün, Upper Austrian Research GmbH (Austria), I. Haltmeie, Leopold-Franzens-Univ, Innsbruck (Austria), G. Paltauf, Karl-Franzens-Univ, Graz (Austria), R. Burgholzer, Upper Austrian Research GmbH (Austria), P. Burgholzer, Upper Austrian Research GmbH (Austria)

17.45: Gold nanorods: contrast agents for photoacoustic imaging?, C. Ungureanu, R. G. Rayavarapu, S. Manohar, T. G. van Leeuwen, Univ. Twente (Netherlands)[6631-08] 18.00: Concomitant acoustic property measurements in a photoacoustic imager, S. Manohar, R. Willemink, F. v. d. Heijden, K. Slump, T. G. wan Leeuwen, Univ. Twente (Netherlands) ...[6631-09]

Conference 6631 continues page 13

Monday 18 June • 09.00 to 10.00

Conf. 6626 (MI)

SESSION 3

Room B12 Mon. 09.00 to 10.00

Probes for Contrast and Molecular Reporting II

Charité-Univ. Medizin Berlin (Germany); M. Schirner, Bayer Schering Pharma AG (Germany) [6626-09] Chair: Gang Zheng, Univ. of Toronto (Canada) conjugate, A. Vater, K. Licha, S. Vollmer. Bayer Schering Pharma AG (Germany); I. Gemeinhardt, O. Gemeinhardt, J. Schnorr, Charité-Univ. Medizin Berlin 09.00: Molecular imaging of experimental arthritis using an EDB targeting antibody NIR-dye (Germany); J. Voigt, J. Berger, B. Ebert, Physikalisch-Technische Bundesanstalt (Germany); M. Taupitz,

.....[6626-10] for molecular imaging and therapy of cancer, I. Corbin. J. Chen, Ontario Cancer Institute (Canada), G. Zheng, Ontario Cancer Institute (Canada) and Univ. of Toronto (Canada) and Univ. of Pennsylvania 09.15: Ligand-conjugated lipoprotein nanocarriers (NSA)

Netherlands)[6626-11] characterization of rod-shaped gold nanoparticles as potential optical contrast agents, R. G. Rayavarapu, C. Ungureanu, W. Petersen, S. Manohar, 09.30: Synthesis, functionalization, and f. G. van Leeuwen, Univ. Twente

imaging (NAOMI) using biodegradable
nanoparticles, D. J. Faber, M. D. de Bruin, M. C. G.
Aalders, F. D. Verbraak, T. G. van Leeuwen, Univ. van
Amsterdam (Netherlands) Coffee Break 10.00 to 10:30 09.45: Nanoparticle assisted optical molecular Conference 6626 continues page 11

Conf. 6627 (OCT) SESSION 3

Room 5 Mon. 09.00 to 10.00

Clinical and Pre-Clinical Applications of

Chair: Jennifer K. Barton, The Univ. of Arizona (NSA)

decontamination after chemical eye burn using optical coherence tomography, F. Spciler, M. Först, H. Kurz, RWTH Aachen (Germany); M. Frentz, N. F. Schrage, Aachen Ctr. of Technology Transfer (5627-10] Ophthalmology (Germany) GmbH (Germany); A. Giese, Georg-August-Univ.
Göttingen (Germany); S. Oelkers, Möller-Wedel
Optical GmbH (Germany); G. Hüttmann, Univ. zu
Lübeck (Germany)[6627-12] optical coherence tomography (OCT) for neurosurgery, E. Lankenau, D. Klinger, H. Müller, A. Malik, Univ. zu Lübeck (Germany); C. Winter, Thorlabs Fourier domain optical coherence tomography, S. Meissner, J. Walther, G. Müller, A. Krüger, H. 09.15: Operating microscope with time domain 09.30: Investigation of murine vasodynamics by Morawietz, E. Koch, Technische Univ. Dresden 09.00: Dynamic imaging of penetration and (Germany)

Conference 6630 continues page 11. Medical Ctr. (Netherlands) and Duke Univ. (USA); F. Mastik, Erasmus Univ. Medical Ctr. (Netherlands); N. de Soffee Break 10.00 to 10.30 Univ. of Twente (Netherlands) and Interuniv. Cardiology Institute of The Netherlands (Netherlands); A. F. W. van and Interuniv. Cardiology Institute of The Netherlands 09.45: Robust intravascular optical coherence elastography, G. van Soest, Erasmus Univ. Medical Ctr. (Netherlands); R. R. Bouchard, Erasmus Univ. der Steen, Erasmus Univ. Medical Ctr. (Netherlands) Jong, Erasmus Univ. Medical Ctr. (Netherlands) and

Conference 6627 continues page 11

Conf. 6630 (CMI)

SESSION 3

Room 4A Mon. 09.00 to 10.00

Accuracy and Quantitation in Microscopy

Chair: David W. Piston, Vanderbilt Univ. (USA)

quantitative fluorescence correlation spectroscopy, S. Rüttinger, Physikalisch-Technische Bundesanstalt (Germany); V. Buschmann, B. Krämer, F. Koberling, PicoQuant GmbH (Germany); R. Macdonald, Physikalisch-Technische Bundesanstalt (Germany) [6630-11] 09.00: Refractive index determination by index-mismatch-induced spherical aberration, P. Su, T. Fwu, H. Vladimir, C. Dong, National Taiwan Univ. 09.15: Determination of the confocal volume for (Taiwan) [6630-12]

Coffee Break 10.00 to 10.30 Washington Univ. in St. Louis (USA) [6630-13] Munchen (Germany)[6630-14] properties using computational differential-interference contrast (DIC) microscopy, C. Preza, Munich (Germany); R. Uhl, Ludwig Maximilians Univ. screening microscope, J. Walter, TILL I.D. GmbH (Germany); C. Seebacher, Ludwig Maximilians Univ. 09.30: Quantitative determination of specimen 09.45: Two- and one-photon color confocal The Univ. of Memphis (USA); J. A. O'Sullivan,

Monday 18 June • 10.30 to 12.30

Conf. 6626 (MI)	Conf. 6627 (OCT)
SESSION 4	SESSION 4
Room B12 Mon. 10.30 to 12.30	Room 5 Mon. 10.30 to 12.30
Advances in Bioluminescence and Fluorescence Imaging II Chair: Andreas Wunder, Charité	Retinal Imaging Chair: Wolfgang Drexler, Cardiff Univ. (United Kingdom)
Universitation Definition (Ventinally) 10.30: MR-guided near-infrared fluorescence spectroscopy of brain tumor, B. W. Pogue, Darfmouth College (USA)	10.30: In vivo optophysiology of the fuman retina (Invited Papert). B. M. Hermann, A. Binns, B. Povalay, A. Unterhuber, B. Hofer, T. H. Margrain, W. Drexler, Cardiff Univ. (United Kingdom)
10.45: Autofluorescence removal from fluorescence tomography data using multispectral imaging, S. Psycharakis, G. Zacharakis, A. Cadralakis, J. Ripoll, Foundation for Research and Technolov-Hellas	11.00: OFDI for retinal imaging , J. F. DeBoer, Massachusetts General Hospital (USA) [6827-15] 11.15: Phase retardation measurement of retinal move fibral baser relaing notatinal moves fibral baser relaing notatinal
(Greece) [6626-14] 11.00: Fluorescence Lifetime Imaging of Targets, a Step to a Functional Imaging of Tissue Abnormalities, Deeply Embedded in Turbid Medium,	spectral domain optical coherence tomography and scanning laser polarimetry, M. Yamanari, Univ. of Tsukuba (Japan); M. Miura, Tokyo Medical Univ. Kasumigaura Hospital (Japan); S. Makita, T. Yatagai, Y. Yasuno, Iniv. of Tsukuba, Ilanan
V. Chernondouls, w. rassan, J. D. Miey, A. n. Gandjbakhche, National Institutes of Health (19626-15) (19626-15)	11.30: Intensity based quantification of fast retinal blood flow in 3D via high resolution resonant Doppler spectral OCT (Invited Pager). R. Michaely, A.
11.13. Non-invasive scalping: increasing tre sensitive of non-invasive fluorescence brain imaging in mice by using a two wavelength approach, P. Bahmani, J. Klohs, A. Wunder, U.	H. Bachmann, M. L. Villiger, C. Blatter, T. Lasser, R. A. Leitgeb, École Polytechnique Fédérale de Lausanne (Switzerland)
Lindauer, R. Bourayou, U. Dinagl, J. M. Steinbrink, Charité-Univ. Medizin Berlin (Germany) [6626-16]	12.00: En-face visualization methods for analyzing three-dimensional UHR OCT retinal imaging data, I. M. Gorczynska, J. J. Liu, V. J. Srinyasan,
Th. 20. Impersory scanning system to double refectance and transmittance floorscence imaging of small animals, M. Brambilla, L. Spinelli, A. Pifferi, A. Dorricelli, R. Cubeddu, Politecnico di Milano (1908-17)	Massachusetts Institute of Technology (USA); R. W. Chen, Tufts Univ. School of Medicine (USA); M. Wojtkowski, Nicolaus Copernicus Univ. (Doland); E. Reichel, J. S. Duker, Tufts Univ. School of Medicine
tvance crosco	(USA); J. G. Fujimoto, Massachusetts Institute of Technology (USA)(6627-18] 12.15; Towards isotropic resolution in ophthalmic
12.00: Applying time-dependent data for fluorescence tomography, R. B. Schulz, J. Peter, W. Semmler, Deutsches Krebsforschungszenfrum (Germany), C. D'Andrea, G. Valentini, R. Cubeddu, Politaccino et Miano, Hraby, M. Schusione, S. B.	utrahigh-resolution optical coherence tomography by using pancorrection, E. J. Fernández, C. Torti, B. Poválay, B. M. Hermann, A. Unterhuber, B. Hoter, W. Drexler, Cardiff Univ. (United Kingdom) (6627-19) Lunch/Exhibition Break
rontecimo di minaro (tray), ivi. Scrimoggo, c. 1. Kingde, Univ. College London (United Kingdom)	
12.15: Pump-lasers-induced multi-structures photoprocesses or the near-lying singlet and triplet excited electronic states in the geteroaromatic eneetes, A. E. Obukhov, Moscow Mining Institute (Russia)	
Conference 6626 continues page 14	

onf. 6630 (CMI)	SESSION 4
Coo	

Room 4A Mon. 10.30 to 12.30

Advanced Instrumentation for Microscopy I

Chair: Tony Wilson, Univ. of Oxford (United

10.30: Advances in lasers for multi photon microscopy, D. P. Armstrong, Coherent Scotland Ltd. (United Kingdom)	10.45: Substantial improvement in penetration
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source, R. Riesenberg, M. Kanka, Institut für Physikalische Hochtechnologie e.V. (Germany)[6630-17] depths and photo damage reduction: muriphororn microscopy beyond one micron, E. Büttner, APE GmbH (Germany): V. Andresen, LaVision Blofec GmbH (Germany): I. Rimke, APE GmbH (Germany): P. Friedl, Univ. Würzburg (Germany)[6630-16] 11.00: Coherent light microscopy with a multi-spot

detection for holographic microscopy, A. Grjasnow, R. Riesenberg, A. Wuttig, Institut für Physikalische Hochtechnologie e.V. (Germany)[6630-18] 11.15: Phase reconstruction by multiple plane

Institut für biophysikalische Chemie (Germany)[6630-19] 11.30: STED microscopy far beyond the diffraction limit employing beam scanning in a regular microscope, V. Westphal, S. W. Hell, Max-Planck-

1145: Advanced fluorescence microscopy using light emitting diodes, G. T. Kennedy, V. Poher, I. H. Munro, D. S. Elson, P. M. W. French, M. A. A. Neil, Imperial College London (United Kingdom). (16630-20] 12.00: Programmable optics for confocal and multiphoton microscopy, M. A. A. Neil, B. R. Boruah, Imperial College London (United Kingdom) . [6630-21]

photon-pairs confocal laser scanning microscopy, C. Chang, National Central Livi, (Taiwan), C. Chou, National Yang Ming Univ. (Taiwan) and National Central Univ. (Taiwan), H. Huang, National Yang Ming Univ. 12.15: Spherical aberration cancellation in polarized (Taiwan); H. Chang, National Central Univ. (Taiwan); W. Kuo, National Taiwan Normal Univ. (Taiwan); H. Yau, National Central Univ. (Taiwan)

Conference 6630 continues page 13

Lunch/Exhibition Break 12.30 to 13.30

Monday 18 June • 13.30 to 15.00

Conf. 6627 (OCT) **session** 5

Room 5 Mon. 13.30 to 14.45

OCT Modeling and Speckle Reduction

Chair: Lars Thrane, Technical Univ. of Denmark (Denmark)

13.30: Scatterer size-based analysis of optical coherence tomography signals, A. Kartakoulis, C. Pitris, Univ. of Cyprus (Cyprus) [6827-20] 13.45: Stereoscopic optical coherence tomography in the frequency domain for refractive index sensitive imaging, P. H. Tomins, M. Tedaldi, R. A. Ferguson, National Physical Lab. (United Kingdom); R. K. Wang, Oregon Health and Science Univ. (USA) and Cranfield Univ. (United Kingdom); [6827-21]

14.00: Speckle reduction in optical coherence tomography images of human skin by a spatial diversity method, T.M. Jorgensen, L. Thrane, A. Zam, P. E. Andersen, Technical Univ. of Denmark (Denmark)

14.15: Contribution of various scattering orders to OCT images of skin, M. Y. Kirilini, Univ. of Oulu (Finland) and M.Y. Lomonosov Moscow State Univ. (Flussia), A. V. Priezzhev, M.V. Lomonosov Moscow State Univ. (Russia); R. A. Myllyiä, Univ. of Oulu (Finland)

14.30: Speckle size in optical coherence tomography, G. Lamouche, National Research Council (Canada); C. Bisaillon, Conseil National De Recherches Canada (Canada); R. Maciejko, Ecole Polytechnique de Montréal (Canada); M. L. Dufour, National Research Council (Canada); J. Monchalin, Conseil National De Recherches Canada (Canada)

Conference 6627 continues page 16.

Monday 18 June • 13.30 to 15.00 • 09.30 to 16.00

cancerous tissue using gold nanorods as bright contrast agents, N. J. Durr. T. Larson, D. K. Smith, The Univ. of Texas/Austri (USA). B. A. Knogel. The Univ. of Texas/Austrin (USA) and Texas Materials Institute (USA). K. Y. Sokolov, The Univ. of Texas M.D. Anderson Room 4A Mon. 13.30 to 15.00 Fechnology (USA)[6630-23] Austin (USA)[6630-25] (United Kingdom)[6630-24] (Germany); S. Xie, Harvard Univ. (USA) [6630-26] 13.45: Aberration-free refocusing in high numerical and microscopy in biomedical sciences, H. A. Rinia Chair: Klaus Suhling, King's College London 14.30: Application of multiplex CARS spectroscopy (Netherlands); E. M. Vartiainen, Lappeenrannan Teknillinen Yliopisto (Finland); C. B. Schaffer, Cornell 13.30: High throughput, high content microscopic Cancer Ctr. (USA); A. Ben-Yakar, The Univ. of Texas/ microscopy based on an optical parametric oscillator, I. Rimke, APE GmbH (Germany); C. L. Evans, Harvard Univ. (USA); E. Büttner, APE GmbH Univ. van Amsterdam (Netherlands); M. Bonn, FOM Institute for Atomic and Molecular Physics 14.15: A new, easy to use light source for CARS aperture microscopy, T. Wilson, Univ. of Oxford Advanced Instrumentation for imaging, P. T. C. So, Massachusetts Institute of 14.00. Two-photon luminescence imaging of Conf. 6630 (CMI) 14.45: Confocal Raman microscopy for (United Kingdom) Microscopy II **SESSION 5**

Conf. 6631 (NOI) session 3

Room 11 Mon. 13.30 to 15.00

Turbid Media and Interferometry Holography

Chair: Christian D. Depeursinge, École Polytechnique Fédérale de Lausanne (Switzerland) 13.30: Simultaneous acquisition of time-domain fNIRS and fMRI during motor activity, A. Torricelli, D. Contini, A. Piffer, L. Spinelli, R. Cubeddu, Politecnico di Milano (Italy); L. Nocetti, A. A. Manginelli, P. Baraldi, Milano (Eqis) and Modena e Reggio Emila (1631-10] (Italy).

13.45: Time-resolved diffuse reflectance at small source-detector separation using a time-gated L. Spinelli, D. Contini, R. Cubeddu, Politeri, A. Torricelli, Single-photon avalanche diode, A. Pifferi, A. Torricelli, Milano (Italy); R. Martelli, G. Zacoarti, Univ. degli Studi di Firenze (Italy); A. Tosi, A. Dalla Mora, F. Zappa, S. Cova, Politecnico di Milano (Italy); T. Tosi, D. Martelli, G. Sacoarti, Univ. degli Studi

14.00: Estimation of biomedical optical properties by simultaneous use of diffuse reflectometry and photothermal radiometry: investigation of light propagation models, E. S. F. Ponseca, Univ. da Beira Interior (Portugal); M. E. P. de Jesus, Univ. da Beira Interior (Portugal) and Unidade de Detecção Remota

14.30: Heterodyne interference microscopy for noninvasive cell morphometry, M. P. Whelan, F. Lakestani, D. Rembges, M. G. Sacco, Joint Research Ctr. (Italy) [6631-14]

14.45: Dynamics measurement of both the integral refractive index and cell morphometry with digital holography microscopy, P. P. Marquet, Ctr. Hospitaler, Univ. Vaudois (Switzerland); Y. Eney, LyncéeTec SA (Switzerland); Y. Colomb, F. Charriere, J. G. Köhn, C. D. Depeursinge, B. Rappaz, P. Jourdain, P. J. Magistretti, Ecole Polytechnique Fédérale de Lausand. [6631-15] (Switzerland)

Conference 6631 continues page 17.

Conference 6630 continues page 17.

Scalfi-Happ, S. Fulda, Univ. Ulm (Germany); A. Jauss, WITec GMBH (Germany); O. Hollricher, WITec GmbH (Germany); C. Hauser, R. W. Steiner, A. C. Rueck, Univ.

investigation of differentiating living tumor cells, C.

Conf. 6632 (TLA)

oom B12 Mon. 13.30 to 15.00

SESSION 1

Laser Surgery on Tissues
Chair. Ronald Sroka, Ludwig-Maximilians-Univ.
München (Germany)

13.30: CO2 laser free-form processing of hard tissue. M. Wenner, M. M. vanentko, C.t. of Advanced European Studies and Research (Germany); D. Harbecke, C.t. of Advanced European Studies and Research (Germany) and Univ. Disseldorf (Germany); M. Klishing, C.t. of Advanced European Studies and Research (Germany); H. Steigerwald, Ctr. of Advanced European Studies and Research (Germany) and Univ. Bonn (Germany); P. Hering, Ctr. of Advanced European Studies and Research (Germany) and Univ. Bonn (Germany); P. Hering, Ctr. of Advanced European Studies and Research (Germany) and Univ. Disseldorf (Germany)

13.45: Ultra-short pulse laser processing of hard tissue, dental restoration materials, and biocompatibles, E. Winther, M. Strassl, V. Wieger, A. Yousif, Technische Univ. Wien (Austria) (6632-02)

14.00: Optimized laser treatment of bone tissue by means of thermal effect visualization, S. Stopp, D. Guenther, H. Deppe, T. C. Lueth, Technische Univ. Muenchen (Germany)

14.15: Partial kidney resection by use of a 1,94µm thulium fiber lasey. D. Theisen-Kunde, Univ. zu Lübeck (Germany); X. Tadsen, Univ zu Lübeck (Germany); Y. Danicke, K. Hermann, R. Brinkmann, Univ. zu Lübeck (Germany); W. A. On Pontierians

14.30: Preliminary results on diode-laser assisted vaporization of prostate tissue, R. Sroka, M. Seltz, O. Reich, A. Bachmann, V. Steinbrecher, A. Ackermann, C. G. Stief, Ludwig-Maximilians-Univ. München (Germany)

14.45: Optical coherence tomography monitoring of vocal fold femtosecond laser microsurgery, H. Wisweh, Laser Zentrum Hannover e.V. (Germany); U. Merkei, A. Hiller, K. Lidessen, Medizinische Hoorschule Hannover (Germany); H. Lubdatschowski, Laser Zentrum Hannover (Germany); H. Lubdatschowski, Laser Zentrum Hannover e.V. (Germany)

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Conf. 6633 (BOLS)

 Welcome and Keynote Chair: Jürgen Popp, Friedrich-Schiller-Univ. Jena

SESSION 1

Room BO.R2 Mon. 14.30 to 16.00

Understanding Life Processes: Innovative Analysis, Detection and Diganostic Methods I

Chair: Valery V. Tuchin, Saratov State Univ. (Russia)

14.30: Optical and chemical switches: key molecules for improved fluorescence imaging and tracking with high optical resolution (*Invited Paper*), M. Sauer, Univ. Bielefeld (Germany); K. H. Drexhage, Univ. Bielefeld (Germany); J. Mattay, P. Tinnefeld, Univ. Bielefeld (Germany); J. Mattay, P. Tinnefeld, Univ. Bielefeld (Germany)

temperature dependent cell membrane dynamics, P. Weber, M. Wagner, Fachhochschule Aalen (Germany); M. S. L. Strauss, Uhiv. Ulm (Germany); H. Schneckenburger, Fachhochschule Aalen (Germany); H. Schneckenburger, Fachhochschule Aalen (Germany)

Conference 6633 continues page 17

Monday 18 June • V Posters

Poster presenters may post their poster papers Monday morning and will need to remove their posters immediately following the poster session that afternoon. Poster authors must be at their papers during the poster session from 15.00-16.00 to discuss the poster with session attendees.

Conf. 6626 (MI)

Chair: Kai Licha, Bayer Schering Pharma AG (Germany)

- - Wholecular targeting as a contrast agent mechanism for fluorescence endoscopy, A. J. Healey, R. Bendiksen, A. Tornes, E. W. Johannesen, GE Healthcare Bio-Sciences (Noway)
 - replication in living cells, A. M. Villa, P. Fusi, C. Pozzi, M. Valtorta, Univ. degli Studi di Milano Bicocca (Italy); G. Amicarelli, D. Adlerstein. DiaSorin S.p.A. (Italy); S. M. Doglia, Univ. degli Studi di Milano Bicocca (Italy).
- Correlation between direct microscopy and FDG-PET in the study of cerebral brain flow in rats, 0. Blagosklonov, Univ. de Franche-Comte (France) and Jean Minjoz Univ. Hospital (France); G. I. Podoprigora, S. V. Pushkin, Y. R. Nartsissov, Institute of Cytochemistry and Molecular Pharmacology (Russia); L. Comas, J. Cardot, H. Bhammacology (Russia); L. Comas, J. Cardot, H. Boulahdour, Univ. de Franche-Comte (France)
- Multiresolution transform denoising and segmentation of single molecule motility image series, F. von Wegner, T. Ober, O. Friedrich, R. H. A. Fink, Ruprecht-Karls-Univ. Heidelberg (Germany); M. Vogel, Harvard Univ. (USA) and Ruprecht-Karls-Univ. Heidelberg (Germany)
 - ✓ Fluorescence diffuse tomography for detection of RFP-expressed tumors in small animals, I. V. Turchin, Institute of Applied Physics (Russia); A. P. Savitsky, A.N. Bach Institute of Biochemistry (Russia); V. A. Kamensky, V. I. Plehanov, A. G. Orlova, M. S. Kleshnin, M. V. Shirmanova, I. I. Fix, Institute of Kleshnin, M. V. Shirmanova, I. I. Fix, Institute of Applied Physics (Russia); V. O. Popov, A.N. Bach Institute of Biochemistry (Russia). ... [6626-27]

✓ Tumor vascular permeability correlated with acute response to antivascular therapy assessed by time domain fluorescence imaging, U. Sunar, D. J. Hall, Univ. of California/ San Diego (USA)

Conf. 6627 (OCT)

Chair: Peter E. Andersen, Danmarks Tekniske Univ. (Denmark)

- Collagen depletion in dermis with polarization of collagen depletion in dermis with polarization sensitive optical coherence tomography applicable to non-laboratory conditions, V. Tougbaev, T. Eom, W. Shin, B. Yu, Y. Lee, C. Kee, D. Ko, J. Lee, Gwangju Institute of Science and Technology (South Korea) [6627-53]
- Slit-lamp adapted OCT for the visualization of retinal structures, G. Hürtmann, Univ. zu Lübeck (Germany); C. Winter, P. Koch, Thorlabs GmbH (Germany); H. Müller, E. Lankenau, Univ. zu Lübeck (Germany)
- V Maximum likelihood estimation of depth reflectances in time-domain optical coherence tomography, C. Fluerau, S. S. Sherif, S. Chang, Y. Mao, National Research Council Canada (Canada)[6627-59]
- ✓ The effects of Gaussian beams on optical
 coherence formography. C. Liu, National Chiao
 Tung Univ, (Taiwan); C. Cheng, C. Chiu, I. Hsu,
 Chung Yuan Christian Univ. (Taiwan) . [6627-60]
- Absorption effects in optical coherence tomography modeling, T. Chow, Nanyang Technological Unix, (Singapore); J. C. Y. Kah, National Unix, of Singapore (Singapore); B. Ng, Nanyang Technological Unix, (Singapore); C. J. R. Sheppard, National Unix, of Singapore); C. J. P. Sheppard, National Unix, of Singapore).
- Diffractive optical coherent microtomography, S. G. Vertu, E. Maeda, M. Ochiai, I. Yamada, J. Delaunay, The Univ. of Tokyo (Japan); O. Haeberlé, Univ. de Haute Alsace (France); Y. Okamoto, Chiba Univ. (Japan)

- V Effects of path-length gating to scattered ight: a Monte Carlo analysis of a focused learn in OCT system, C. Tjokro, Singapore-Nassachusetts Institute of Technology Alliance (Singapore): T. Chow, Nanyang Technological Univ. (Singapore); J. C. Y. Kah, National Univ. of Singapore (Singapore): C. J. R. Sheppard, National Univ. of Singapore (Singapore) and Singapore-Massachusetts Institute of Singapore-Massachusetts Institute of Singapore-Massachusetts Institute of Archorlogy Alliance (Singapore): [6627-64]

 V Optical Coherence tomography (OCT) imaging and computer aided diagnosis of human cervical tissue specimens, F Bazant-
- and computer added diagnosis of human cervical tissue specimens, F. Bazant-Hegenark, Gloucestershire Royal Hospital (United Kingdom) and Cranfield Univ. (United Kingdom) and Cranfield Univ. (United Kingdom); N. Stone, M. D. Read, Gloucestershire Royal Hospital (United Kingdom); K. McCarthy, Gloucestershire Hospitals NHS Foundation Trust (United Kingdom); R. K. Wang, Oregon Health & Science Univ. (UsA)
 - ✓ Logarithmic transformation technique for exact signal recovery in frequency domain optical coherence tomography, C. S. Sekhar, R. A. Letigeb, A. H. Bachmann, M. A. Unser, École Polytechnique Fédérale de Lausanne (Switzerland)

Posters Monday 18 June

Poster presenters may post their poster papers Monday morning and will need to remove their posters immediately following the poster session that afternoon. Poster authors must be at their papers during the poster session from 15.00-16.00 to discuss the poster with session attendees.

Conf. 6630 (CMI)

Chair: Tony Wilson, Univ. of Oxford (United Kingdom)
 Simultaneous imaging of confocal fluorescence and Raman spectrum, M. Ahn, Korea Advanced Institute of Science and Technology (South Korea) [6630-36]
 Improvement of axial resolution in confocal microscopy using heterodyne illumination, S. Lee, Korea Advanced Institute of Science and Technology (South Konea)
h efficiency ctor for cor Song, S. L.
Korea)
tral descanned detect M. Tiemann, J. Martini, i, Bielefeld Univ.
-based light source for CARS troscopy, E. R. Andresen, C. K. N., S. R. Keiding, Åarhus Univ.
esolved fluorescence correlation opy based on electron multiplying noto, T. Sugiura, K. Minato, Nara Ins nd Technology (Japan)
 Evaluation of a new method for the determination of experimental PSF of a wide-field microscope using white-light and a linear sensor, M. P. Macedo, Instituto Superior de Engenhana de Coimbra (Portugal); A. J. Baratal, A. G. Fernandes, C. M. B. A. Correia, Univ. de Crimbra (Portugal).
fluorescenc Manning, D. N Talbot, C. W. Neil, P. M. W. ted Kingdom]
 Fast three-dimensional random access multiphoton microscopy for functional recording of neuronal activity, P. Saggau, Baylor College of Medicine (USA); D. Reddy, Rice Univ. (USA). [6630-45]
✓ Biological applications of microscope profiler, S. Han, Veeco Tucson Inc. (USA); E. L. Novak, Veeco Instruments Inc. (USA); J. Reed, M. A. Teitell, J. K. Gimzewski, Univ. of California/Los Angeles (USA) (ISA)

Conf. 6631 (NOI)

/ Automated slide-screening platform for histo/	(Germany); R. Biandu, Ludwig-Maximilians-Univ.
pathology, R. Daum, TILL Photonics GmbH	München (Germany); R. Uhl, TILL Photonics
Chair: Christian D. Depeursinge, École Polytechnique Fédérale de Lausanne (Switzerland)	✓ Monte Carlo simulation of photon transillumination time of flight. P. Vacas-Jacques

|--|--|--|

Moscu, J. E. Hayward, T. J. Farrell, M. S. Patterson, Ctr. (Canada) [6631-43] McMaster Univ. (Canada) and Juravinski Cancer estimation of tissue optical properties, D. F. integrating sphere based detector for the Characterization and optimization of an

Laser-Doppler spectrum decomposition method: experimental validation, N. S. Zolek, Physik-Tech Bundesanstat (Poland); A. Liebert, Institute of Blocybernetics and Biomedical Engineering (Poland); R. Maniewski, Physik-Tech Bundesanstati (Poland)	Image transmission by multimode optical liber
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✓ Time-gated real-time pump-probe imaging for microendoscopy, T. Rozzi, A. Lucesoli, Univ. Politecnica delle Marche (Italy) [6631-45]

	G. Valentini, R. Cubeddu, Politecnico di Milano (Italy)
`	/ All-reflective digital microscope system for rapi
	histological and immunofluousocout imagina

nistological and immunofluourescent Imaging of tissue, R. J. Filkins, S. Yazdanfar, K. Tasimi, K. Kenny, E. Dixon, G. Abramovich, M. Meyers, M. Montalto, GE Global Research (USA) .. [6631-47] ✓ Flexible hollow polycarbonate fiber for

endoscopic infrared laser treatment, M. Nakazawa, Shimadzu Corp. (Japan), Y. Shi, Fudan[6631-48] Univ. (China); K. Iwai, Sendai National College of Technology (Japan); Y. Matsuura, Tohoku Univ. (Japan); X. Zhu, Fudan Univ. (China); M. Miyagi, Sendai National College of Technology (Japan)

Kanka, R. Riesenberg, Institut für Physikalische Hochtechnologie e.V. (Germany) [6631-62]

...... 16.00 to 16.30

Soffee Break

Almeida, Univ. do Minho (Portugal) ... [6631-59]

Advanced coherent 3D micro-imaging, M.

mapping of the cornea, S. M. B. Franco, J. B.

✓ A new optical system for 3-dimensional

Determination of agar tissue phantoms depth profiles with pulsed photothermal radiometry, N Milanic, B. B. Majaron, Jozef Stefan Institut	(Slovenia); S. J. Nelson, Beckman Laser Institute (USA)
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 Design and implementation of detection schemes for spectral photoplethysmography and photo-acoustics, I. S. Abdulhalim II, G. 	Tsvilikhovski, B. Epstein, Ben-Gurion Univ. of the Negev (Israel)
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Coffee Break 16.00 to 16.30

Conf. 6632 (TLA)

Chair: Alfred Vogel, Univ. zu Lübeck (Germany) V Photodynamic therapy of murine non- malanoma skin carcinomas with diode laser affer topical apolication of aluminum	phthalocyanine chloride, M. Kyriazi, E. Alexandratou, D. M. Yova, National Technical	Univ. of Athens (Greece); M. Rallis, Univ. of Athens (Greece); T. A. Trebst, CeramOptec	GmbH (Germany)[6632-20]
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GmbH (Germany)

(Ireland) [6631-52]

the optical clearing process, J. G. Enfield, J. Single point and imaging measurements of W. O'Doherty, M. J. Leaahy, Univ. of Limerick High-resolution image acquisition using a

✓ Characterization of biophysical properties of rabbit auricle reshaped via diode laser (? =980 nm), T. A. El Tayeb, The German Univ. in Cairo (Egypt)	Computation thermal qualification tool
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(Germany)[6631-53]

Deutsches Krebsforschungszentrum

✓ The application of a long period grating

compact microlens-coupled detector, D. Unholtz, R. B. Schulz, W. Semmler, J. Peter,

NHS Trust (United Kingdom) [6631-55] / Imaging correlography applied to high resolution retinal imaging, B. Thurin, L. Diaz-Santana, City Univ. (United Kingdom) [6631-56]

✓ Light scattering application for bacterial cell

monitoring during cultivation process, I. Y.

Kotsyumbas, I. M. Kushnir, State Scientific-

Research Control Institute of Veterinary

sensors to human respiratory
plethysmography, T. D. P. Allsop, K. Carroll, D.
J. Webb, I. Bennion, Aston Unix. (United
Kingdom), M. Miller, Unix. Hospital Birmingham

(CTOT) for in-vitro low-water-content, F. A. Canestri, Agilent Technologies Deutschland GmbH (Germany)[6632-51] V The photons propagation into non trivial geometry biological tissue. I. Krasnikov, A. Seteikin, Amur State Univ. (Russia) [6632-52]
1 62 50 · - 45 50

Preparations and Fodder Additives (Ukraine); R. Gilyy, Institute of Cell Biology (Ukraine); V. B. Gefman, A. I. Bilyi, Ivan Franko Natuluiv. of L'viv (Ukraine)

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The influence of intravenous laser irradiation of blood on some metabolic and functional parameters in intact rabbits and experiment cerebral ischemia, N. I. Nechlpurenko, L. A. Vasilevskaya, Institute of Neurology, Neurosuggy, & Physiotherapy (Belaus), J. I. Musienko, Belarusian Medical Academy for Musienko.
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Postgraduate Education (Belarus); G. Maslova,

Coffee Break

Monday 18 June • 16.30 to 18.30

Conf. 6627 (OCT)

SESSION 6

Room 5 Mon, 16.30 to 18.15

Advances in OCT System Technology I Chair: James G. Fujimoto, Massachusetts

Institute of Technology (USA)

16.30: Simultaneous optical coherence and multiphoton microscopy of skin-equivalent tissue models (*USNyi Ea Paper*), J. K. Barton, The Univ. of Arizone (*USNyi*, S. Tang, R. Lim, Univ. of California/trvine (USA); B. J. Tromberg, Beckman Laser Institute and Medical Clinic (USA)

17.00: High-Speed, auto-focusing optical coherence microscopy system for cellular resolution imaging of human tissues, A. D. Aguirre, Massachusetts Institute of Technology (USA) and Harvard Medical School (USA). J. G. Fujimoto, Massachusetts Institute of Technology (USA).

17.30: Filter bank approach to enhance signal processing for FD OCT, B. Hofer, B. Povalay, B. M. Hermann, A. Unterhuber, Cardiff Univ. (United Kingdom); G. Matz, F. Hlawatsch, Vienna Univ. of Technology (Hostria); W. Drexler, Cardiff Univ. (United Kingdom); [6627-30]

Conference 6627 continues page 18.

Conf. 6630 (CMI)

SESSION 6

Room 4A Mon. 16.30 to 18.30

Chair: Peter T. C. So, Massachusetts Institute of Microscopy in Dermatology

Technology (USA)

Göteborg Univ. (Sweden) and Consultant (Sweden); J. Paoli, Göteborg Univ. (Sweden); A. Odu, Linköping Jniv. (Sweden)[6630-29] Jniv. (Sweden); M. Smedh, A. K. Wennberg, Göteborg 16.30: Two-photon microscopy of non-melanoma skin cancer: initial experience and diagnostic criteria ex vivo (Invited Paper), M. B. Ericson,

17.00: Multiphoton tomograph Dermalnspect(r): non invasive powerful tool for in vivo evaluation of the (Germany); A. Colonna, L'Oreal (Germany); C. Hadjur, F. Riemann, K. König, Fraunhofer-Institut für Biomedizinische Technik (Germany) [6630-30] Leroy, F. Flament, R. Bazin, B. Piot, L'Oreal (France); J. human skin compounds, R. Le Harzic, Fraunhofer-Institut für Biomedizinische Technik (Germany); R. Bückle, JenLab GmbH (Germany); A. Ehlers, Fraunhofer-Institut für Biomedizinische Technik

17.15: Adjustable mirror arm for in-vivo two-photon microscopy, N. Koop, M. Ehrke, G. Hüttmann, Univ. zu _übeck (Germany) [6630-31]

through a handheld probe, C. Boudoux,
Massachusetts Institute of Technology (USA); D. Yelin,
W. Y. Oh, M. S. Shishkov, B. E. Bouma, G. J. Tearney,
Harvard Medical School (USA) 17.30: Spectrally encoded confocal imaging in vivo

18.00: Investigation of depitatory mechanism by use investigate the development of early cancer in nude mice in vivo, C. Wang, F. Li, S. Lin, W. Lo, C. Dong, National Taiwan Univ. (Taiwan)[6630-33] of multiphoton fluorescent microscopy, C. Lin, J. 17.45: Utilizing nonlinear optical microscopy to Lee, S. Lin, S. Jee, C. Dong, National Taiwan Univ

(Germany)[6630-35] 18.15: Multiphoton Microscopy for the Investigation (Germany); M. Schneider, B. Weiss, C. Lehr, U. F. Schäfer, Univ. des Saarlandes (Germany); K. König, Fraunhofer-Institut für Biomedizinische Technik Fraunhofer-Institut für Biomedizinische Technik of trans-cutaneous drug delivery, F. Stracke,

■ End of Conference

Monday 18 June • 16.30 to 18.30 Conf. 6631 (NOI)

Room 11 Mon. 16.30 to 18.15

SESSION 4

Chair: Christian D. Depeursinge, École Polytechnique Fédérale de Lausanne Interferometry Holography (Switzerland)

(Italy); P. Ferraro, Istituto Nazionale Ottica Applicata (Italy) [6631-16] holography and lateral shear interferometry, L. Miccio, Istituto Nazionale di Ottica Applicata (Italy); A. Finizio, S. M. De Nicola, Istituto di Cibernetica Eduardo Caianiello 16.30: Lipid particle detection by means digital

16.45: Erythrocytes analysis with a digital holographic microscope, B Rappaž, Ecole Polytechnique Fédérale det ausanne (Switzerland). A Barbui, Tel-Aviv Univ. (Israel); F Charrière, J. G. Köhn, École Polytechnique. Aviv Univ. (Israel); C. D. Depeursinge, P. J. Magistretti, P. P. Marquet, École Polytechnique Fédérale de Lausanne (Switzerland)[6631-17] Fédérale de Lausanne (Switzerland); R. Korenstein, Tel-

Hirsch, Ctr. of Advanced European Studies and Research (Germany); S. Heintz, Ctr. of Advanced European Studies 17.00: Single-pulsed digital holographic topometry, S. European Studies and Research (Germany) . [6631-18] European Studies and Research (Germany); P. Hering, and Research (Germany) and Furtwangen Univ. (Germany); A. Thelen, N. Gisbert, Ctr. of Advanced Univ. Düsseldorf (Germany) and Ctr. of Advanced

biological cells and tissues with nanometer resolution, C. Lai, I. Hsu, Chung Yuan Christian Univ. 17.15: Optical imaging of the surface profiles of 17.30: High-resolution adaptive holographic (Taiwan)

interferometer for biomedical application, G. E. Dovgalenko, ITT Technical Institute (USA); A. Dagdanova, Eastern Virginia Medical School (USA) [6631-21] Kingdom)[6631-22] oximetry in the retina, G. D. Muyo Nieto, I. Alabboud Heriot-Watt Univ. (United Kingdom); D. Mordant, A. I. 17.45: New spectral imaging techniques for blood McNaught, Cheltenham General Hospital (United Kingdom); A. R. Harvey, Heriot-Watt Univ. (United

California/Davis (USA); S. Sharareh, Biosense Webster ablation with optical spectroscopy, S. G. Demos, Lawrence Livermore National Lab. (USA) and Univ. of 18.00: Real time assessment of RF cardiac tissue

Conference 6631 continues page 19.

Conf. 6632 (TLA) **SESSION 2**

Room B12 Mon. 16.30 to 17.30

Laser Treatment of Vascular **Malformations**

Chair: Raimund Hibst, Univ. Ulm (Germany)

Signorelli, A. Giaquinta, Univ. degli studi Magna Græcia di Catanzaro (Italy) 16.30: Surgical treatment of cerebral ischemia by means of diode laser: first experimental results and comparison with theoretical model, T. Lo Feudo, C. Bellecci, P. Gaudio, M. Gelfusa, Univ. degli Studi di Roma/Tor Vergata (Italy); C. D. Signorelli, G. Iofrida, F.

16.45: Optical coherence tomography investigations Maximilians-Univ. München (Germany) [6632-08] and laser light application, R. Sroka, O. Meissner, K. Hunger, G. Barbaryka, C. Burgmeier, R. Blagova, W. Beyer, T. J. Beck, B. Steckmeier, C. Schmedt, Ludwigof endoluminal vein treatment after radiofrequency

Univ. of Arkansas for Medical Sciences (USA)[6632-09] vessels investigated by mathematical modeling, W. 17.00: The effects of intense pulsed light on blood Bäumler, Univ. Regensburg (Germany); G. Shafirstein,

Conference 6633 continues page 19

17.15: Interaction of a dual-wavelength laser system with cutaneous blood vessels, B. B. Majaron, M. Milanic, Institut Joïef Stefan (Slovenia); S. J. Nelson, Univ. of California/Irvine (USA)

SESSION 3

..... Mon. 17.30 to 18.15 Room B12

Tissue Optics

Tolstik, Belarusian State Univ. (Belarus) [6632-11] technique in thermotherapy predictive analysis on biological tissue, F. Fanjul-Vélez, J. L. Arce-Diego, Univ. de Cantabria (Spain); O. G. Romanov, A. L. Chair: Martin Frenz, Univ. Bern (Switzerland) 17.30: A novel 3D modeling and simulation

muscular oxygenation, C. Mansouri, Groupe ISAIP-ESAIP (France); J. L'huillier, Ecole Nationale Supérieure in a three-layered model: application to the study of ESAIP (France)[6632-13] 17.45: Space-time modeling of the photon diffusion d'Arts et Métiers (France); A. Humeau, Groupe ISAIP-

characterization of bio-materials using liquid crystal variable retarders, S. Firdous, Sr., Pakistan Institute of Engineering and Applied Sciences (Pakistan) [6632-14] 18.00: Laser stokes polarimetry for the

Conf. 6633 (BOLS)

SESSION 2

Room BO.R2 Mon. 16.30 to 17.30 Understanding Life Processes:

Chair: Markus Sauer, Univ. Bielefeld (Germany) Innovative Analysis, Detection and Diganostic Methods II

16.30: **Metal-enhanced fluorescence (***linvited Paper***).** J. Enderlein, Eberhard Karls Univ. Tübingen (Germany) [6633-07]

Regensburg (Germany) [6633-09] 17.15: Direct detection of singlet oxygen generated 17.00: Axially resolved polarization microscopy of membrane dynamics in living cells, M. Wagner, P. Weber, H. Schneckenburger, Fachhochschule Aalen by UVA irradiation in phospholipids, human cells, and skin, J. Baier, T. Maisch, W. Bäumler, Univ. (Germany)

Conference 6632 continues page 19

Tuesday 19 June • 09.00 to 10.00

Conf. 6627 (OCT)

SESSION 7

Room 5 Tues. 09.00 to 10.00

System Architecture

Chair: Adrian G. Podoleanu, Univ. of Kent at Canterbury (United Kingdom)

09:00: MEMS based non-rotatory circumferential scanning optical probe for endoscopic optical coherence tomography, Y. Xu, National Univ. of Singapore (Singapore) and Institute of Microelectronics (Singapore); J. Singh, Institute of Microelectronics (Singapore); H. S. Jason, K. Ramakrishna, N. Chen, C. (Singapore); H. S. Jason, K. Ramakrishna, N. Chen, C. T. Kuan, National Univ. of Singapore (Singapore) [6627-33]

Tuesday 19 June • 09.00 to 10.00

Conf. 6631 (NOI) **SESSION 5**

Room B12 Tues, 09.15 to 10.00

Chair: Christian D. Depeursinge, École Polytechnique Fédérale de Lausanne Imaging and Sensing

(Switzerland)

09.15: Laser Doppler perfusion imaging with a high-speed CMOS-camera, M. Draijer, E. Hondebrink, W. Steenbergen, T. G. van Leeuwen, Univ. Twente Coffee Break 10.00 to 10.30 Univ. Hospital Linköping (Sweden)[6631-26] d'Optique (France)[6631-27] (freland); J. Henricson, Univ. Hospital Linköping (Sweden); G. E. Nilsson, WheelsBridge AB (Sweden); M. J. Leahy, Univ. of Limerick (freland); C. Anderson, spectroscopy imaging to evaluate skin microcirculation, J. W. O'Doherty, Univ. of Limerick 09.30: Real time diffuse reflectance polarization imaging biosensor, A. Duval, F. Bardin, A. Aide, A. Bellemain, J. Moreau, M. T. G. Canva, Institut 09.45: Polarimetric surface plasmon resonance

Conf. 6632 (TLA)

Room 11 Tues. 09.00 to 10.00

SESSION 4

PDT Basics and Antimicrobial Treatment Chairs: Heyke C. Diddens, Univ. zu Lübeck (Germany); **Tanja Gabrecht**, Ecole Polytechnique Fédérale de Lausanne

(Switzerland)

09.00: Oxygen consumption in photodynamic inactivation of bacteriar the role of singlet oxygen, T. Maisch, J. Baier, B. Franz, R. Szeimies, M. Laudrhaler, W. Bäumler, Univ. Regensburg (Germany) ... [6632-15] antiseptic for treatment of local infections, H. C. Diddens, Univ. zu Lübeck (Germany) [6632-16] Regensburg (Germany) [6632-17] National d'Optique (Canada); K. R. Diamond, M. S. Patterson, McMaster Univ. (Canada) Bouchard, J. Cormier, I. Noiseux, M. L. Vernon, Institut Coffee Break 10.00 to 10.30 spectroscopic investigations of photosensitizers encapsulated in liposomal phantoms, O. Mermut, J. 09.15: Photodynamic therapy combined with an 09.30: Investigations on the laser light induced decomposition of indocyanine green (IGC), W. Bäumler, E. Engel, R. Schraml, R. Vasold, Univ. 09.45: Frequency domain, time-resolved, and

Conference 6632 continues page 20.

Conference 6631 continues page 20.

Conf. 6633 (BOLS)

Innovative Analysis, Detection and **Understanding Life Processes:** Diganostic Methods III

Room BO.R2 Tues. 09.00 to 10.30

SESSION 3

Chair: Arthur E. T. Chiou, National Yang-Ming Univ. (Taiwan) 09.00: Improvements of laser biomedical spectroscopy and imaging (Invited Paper), V. V. Tuchin, Saratov State Univ. (Russia) [6633-10] 09.30: High throughput high content live cell screening pattorn, R. Uhl, TILL Photonics GmbH (Gemnany); H. Harz, S. Neogy, Ludwighilans-Uhiv. München (Germany) [6633-11] 09.45: Techniques and applications of digital

holographic microscopy for life cell imaging, B. Kemper, P. Langehanenberg, J. Schnekenburger, G. von Bally, Univ. Münster (Germany) Coffee Break 10.00 to 10.30 Conference 6633 continues page 20.

Conf. 6627 (OCT)

Room 5 Tues. 10.30 to 12.15 SESSION 8

Advances in OCT System Technology II Chair: Constantinos Pitris, Univ. of Cyprus

(Cyprus)

systems, G. Hüttmann, V. Hellemanns, Univ. zu Lübeck (Germany); P. Koch, Thorlabs-HL (Germany) [6627-38][6627-63] channel detection based full-filed OCT, M. Akiba, K. 10.45: Increase of the imaging depth in linear OCT 11.00: In vivo imaging of mouse cornea by dual-10.30: Endoscopes for spectral radar OCT, E. Lankenau, Univ. zu Lübeck (Germany); K. Eder, Fraunhofer-Institut für Produktionstechnologie Chan, Yamagata Promotional Organization for (Germany); D. Boller, P. Koch, Thorlabs GmbH (Germany); G. Hüttmann, Univ. zu Lübeck (Germany)

Industrial Technology (Japan)[6627-39] Computadores do Porto (Portugal); J. A. Rogers, P. Justin, Ophthalmic Technologies Inc. (Canada); R. B. Rosen, The New York Eye and Ear Infirmary (USA); A. 11.15: Design criteria in choosing optimized OCT (Portugal) and Instituto de Engenhariade Sistemas e G. Podoleanu, Univ. of Kent at Canterbury (United scanning regimes, C. C. Rosa, Univ. do Porto

compensation in a real-time static delay line grating based correlation OCT system, L. Froehly, P. Sandoz, [6627-42] domain OCT spectrometers, D. J. Faber, D. M. de Bruin, H. de Vries, T. G. van Leeuwn, Univ. van 11.30: Doppler calibration method for spectral-Furfaro, M. Ouadour, Univ. de Franche-Comté 11.45: Static depth dependant dispersion Amsterdam (Netherlands)

(France)

biology, M. L. Villiger, École Polytechnique Fédérale de (Switzerland)[6627-44] ausanne (Switzerland); M. Beleut, C. Brisken, Swiss coherence microscopy assists developmental 12.00: Extended focus Fourier domain optical (Switzerland); T. Lasser, R. A. Leitgeb, École Institute for Experimental Cancer Research Polytechnique Fédérale de Lausanne

Conference 6627 continues page 21.

Tuesday 19 June Conf. 6631 (NOI) **SESSION 6**

...... Tues. 10.30 to 12.30 Room B12

Fluorescence

Polytechnique Fédérale de Lausanne (Switzerland) Chair: Christian D. Depeursinge, École

endoscopes, S. Schenkl, A. Ehlers, Fraunhofer-Institut für Biomedizinische Technik (Germany); R. Le Harzio, JenLab GmbH (Germany); I. Riemann, D. Sauer, Fraunhofer-Institut für Biomedizinische Technik (Germany); B. Messerschmidt, Grintech GmbH (Germany); M. Kaatz, Friedrich-Schiller-Univ. Jena (Germany); K. König, Fraunhofer-Institut für Biomedizinische Technik (Germany) 10.30: Rigid and flexible multiphoton fluorescence

(USA); N. Bosschaart, Univ. Twente (Netherlands); D. J. Jansen, Vanderbilt Univ. (USA)[6631-29] 10.45: Combined Raman spectroscopy-optical coherence tomography, C. A. Patil, Vanderbilt Univ. Faber, Univ. van Amsterdam (Netherlands); T. G. van Leeuwen, Univ. Twente (Netherlands); A. Mahadevan

fluorescent probes, P. Lecaruyer de Lainsecq, E. Fort, Univ. Paris VII (France); S. Fort, Univ. Paris-Sud-XI 11.00: High-resolution imaging using random

11.15: Two-photon, two-color in vivo flow cytometry to noninvasively monitor multiple circulating cell lines, E. R. Tracazy, C. F. Zhong, J. Y. Ye, K. Luker, G. D. Luker, J. B. Baker, U., T. B. Norris, Univ. of Michigan (USA)[6631-31] 11.30: Fluorescence imaging of experimental

(Germany); I. Gemeinhardt, O. Gemeinhardt, J. Schnorr, M. Taupitz, Charité-Univ. Medizin Berlin (Germany); A. Vater, S. Vollmer, K. Licha, M. Schirner, Bayer Schering Pharma AG (Germany)[6631-32] rheumatoid arthritis in vivo using a fast flying-spot scanner, J. Berger, J. Voigt, F. Seifert, B. Ebert, R. Macdonald, Physikalisch-Technische Bundesanstalt

11.45: Spectroscopic imaging in the near field with an aperture less solid-immersion lens system, T. Merz, R. W. Kessler, Reutlingen Univ. (Germany) [6631-33] 12,00: Evaluation of a fiber-optic fluorescence

spectroscopy system to assist neurosurgical tumor resections, M. A. Ilias, F. Westermark, M. Brantmark, Linköping Univ. (Sweden); S. Andersson-Engels, Lunds (Sweden)[6631-34] 12.15: Combination of panoramic and fluorescence Univ. (Sweden); K. Wårdell, Linköping Univ.

endoscopic images to obtain tumor spatial distribution Mécanique - Nancy (France)[6631-35] Lunch/Exhibition Break 12.30 to 13.30 information useful for bladder cancer detection, S. Olijnyk, Y. Hernandez-Mier, W. W. Blondel, C. Daul, D. Wolf, École Nationale Supérieure d'Electricité et de

Conference 6631 continues page 21.

• 10.30 to 12.30 Conf. 6632 (TLA)

Room 11 Tues, 10,30 to 12,15

SESSION 5

Chair: Herbert G. Stepp, Ludwig-Maximilians-PDT: Preclinical and Clinical Studies Univ. München (Germany)

cancer murine model by topical application of a novel mTHPC liposomal formulation, E. Alexandratou, M. Kyriazi, National Technical Univ. of Athens (Greece); T. A. 10.30: Photodynamic therapy of non melanoma skin

10.45: Photodynamic therapy of bladder cancer: a phase I study using hexyl-aminolevulinate, M. J. Bader D. Zaak, Ludwig-Maximilians-Univ. München (Germany);

M. Ehles, L. Kriegmair, MTC GmbH (Germany); T. Pongratz, W. Beyer, C. G. Stief, H. G. Stepp, Ludwig-Maximilians-Univ. München (Germany) [6632-21]

Fédérale de Lausanne (Switzerland); D. Bachmann, Ctr. Hospitalier Univ. Vaudois (Switzerland); T. Gabrecht, École G. A. Wagnières, H. van den Bergh, École Polytechnique Federale de Lausanne (Switzerland); P. Michetti, M. Ortner, Ctr. Hospitalier Univ. Vaudois (Switzerland)[6632– 22] (Invited Paper), L. Favre, D. Vekub, Ctr. Hospitalier Univ. Bouzourene, Ctr. Hospitalier Univ. Vaudois (Switzerland); Polytechnique Fédérale de Lausanne (Switzerland) and Ctr. Hospitalier Univ. Vaudois (Switzerland); H. 11.00: Photodynamic therapy for the treatment of Crohn's disease; preclinical and clinical results Vaudois (Switzerland); F. Borle, École Polytechnique

sensitizer concentration (Invited Paper), W. Beyer, T. J. temoporfin for photodynamic therapy, N. Bendsoe, K. 12.00: Spectroscopic monitoring of topically applied Heinrich-Heine-Univ. Dusseldorf (Germany); F. Kreth, R. Baumgartner, H. G. Stepp, Ludwig-Maximilians-Univ. 11.30; Interstitial PDT of glioblastoma with 5-ALA: Maximilians-Univ. München (Germany); W. Stummer, Beck, R. Sroka, J. Mehrkens, W. Rachinger, Ludwigclinical studies and method for measurement of München (Germany) ...

Conference 6632 continues page 21.

Lunch/Exhibition Break 12.15 to 13.30

Svanberg, S. Andersson-Engels, Lund Univ. Hospital

Conf. 6633 (BOLS)

Room BO.R2 Tues. 10.30 to 12.30

SESSION 4

Innovative Analysis, Detection and **Understanding Life Processes:** Diganostic Methods IV

Chair: Michael Schmitt, Friedrich-Schiller-Univ. Jena (Germany)

Bally, Univ. Münster (Germany)[6633-13] 10.30: Autofocus algorithms for digital-holographic microscopy, P. Langehanenberg, B. Kemper, G. von 10.45: Analysis of cellular structure and dynamics

with digital holography microscopy, P. P. Marquet, Ctr. Hospitalier Univ. Vaudois (Switzerland); T. Colomb, F. Charrière, École Polytechnique Fédérale de Polytechnique Fédérale de Lausanne (Switzerland); Y. Emery, Lyncée Tec SA (Switzerland); B. Rappaz, P. Lausanne (Switzerland); J. G. Kühn, Ecole

Fédérale de Lausanne (Switzerland)[6633-14] 11.00: Dynamic in vivo analysis of drug induced Jourdain, P. J. Magistretti, École Polytechnique

Univ. Münster (Germany)[6633-15] the study of complex interactions and dynamics, P. 11.15: Multicolor single molecule spectroscopy for actin cytoskeleton degradation by digital holographic microscopy, J. Schnekenburger, I. Bredebusch, W. Domschke, G. von Bally, B. Kemper, Finnefeld, D. Fetting, R. Kasper, Bielefeld Univ. (Germany)

microscopy assists diabetes research, R. A. Leitgeb, M. L. Villiger, T. Lasser, École Polytechnique Fédérale 11.30: High resolution spectral optical coherence

de Lausanne (Switzerland); P. Meda, Univ. de Genève (Switzerland); W. Pralong, École Polytechnique Fédérale de Lausanne (Switzerland)

Institute of Physical and Chemical Research (Japan); T. of Physical and Chemical Research (Japan) [6633-18] G. Etoh, Kinki Univ. (Japan); A. Miyawaki, The Institute 11.45: Ultrafast dynamics in a live cell irradiated by femtosecond laser pulses, H. Kawano, C. Hara, The

12.00: Non-linear and ultra high-speed imaging for Kaestner, P. Lipp, Univ. des Saarlandes (Germany) explorations of the murine and human heart, [6633-19]

backscattering signal in reflectance-based imaging with gold nanoshells, J. C. Y. Kah, National Univ. of Singapore (Singapore); T. Chow, Nanyang Technological Univ. (Singapore); C. J. R. Sheppard, National Univ. of Singapore (Singapore) [6633-20] Lunch/Exhibition Break 12.30 to 13.30 Fechnological Univ. (Singapore); M. C. Olivo, National Cancer Ctr. Singapore (Singapore); B. Ng, Nanyang 12.15: Improving the optical contrast of

Conference 6633 continues page 21

Conf. 6627 (OCT)

...... Tues, 13.30 to 15.00 Room 5

SESSION 9

Chair: Christoph K. Hitzenberger, Medizinische Retinal Imaging II Univ. Wien (Austria)

[6627-45] thickness: normative data and macular hole patients, B. . Sander, Copenhagen Univ. Hospital Glostrup (Denmark); M. Jørgensen, Technical Univ. of Denmark 13.30: Correcting ocular aberations with a high stroke deformable mirror, S. G. Tuohy, A. Bradu, Univ. of Kent (United Kingdom); A. G. Podoleanu, Univ. of Kent at Canterbury (United Kingdom); N. Chateau, Imagine Eyes 13.45: Quantification of the photoreceptor layer France)

..... [6627-46] 14.00: Scattering optical coherence angiography with 1-(Japan)[6627-47] 14.15: Optical coherence angiography for the retina and Tsukuba (Japan) and Korea Advanced Institute of Science and Technology (Japan); S. Makita, M. Yamanari, Univ. of Organization for Industrial Technology (Japan); M. Miura, Tokyo Medical Univ. Kasumigaura Hospital (Japan) and Univ. of Tsukuba (Japan); T. Yatagai, Univ. of Tsukuba um swept source optical coherence tomography, Y. Yasuno, Univ. of Tsukuba (Japan); Y. Hong, Univ. of Tsukuba (Japan); M. Akiba, Yamagata Promotional (Denmark)

(Germany)[6631-37]

Tokyo Medical Univ. Kasumigaura Hospital (Japan) and Univ. of Tsukuba (Japan); M. Yamanari, T. Yatagai, Y. Yasuno, Univ. of Tsukuba (Japan) 14.30: In-vivo 3-D imaging of age-related macular degeneration using optical frequency domain imaging at 1050 mm, D. M. de Bruin, Massachusetts General Hospital (USA); J. F. DeBoer, Harvard Medical School (USA) and Wellman Ctr. for Photomedicine (USA); D. L. Burnes, J. Loewenstein, C. Kerbage, G. N. Maguluri, B. H. Park, Massachusetts General Hospital (USA); A. Yun, Harvard Medical School (USA) and Wellman Ctr. for Photomedicine

Univ. (United Kingdom); H. Sattmann, Medical Univ. Vienna (Austria); F. Zeiler, Ludwig Boltzmann Institut (Austria); J. E. Coffee Break16.00 to 16.30 Morgan, Cardiff Univ. (United Kingdom); C. Falkner-Radler, C. Glittenberg, S. Binder, Ludwig Boltzmann Institut tissue, B. Povalay, B. M. Hermann, A. Unterhuber, Cardiff 14.45: Three-dimensional high speed OCT at 1050 nm penetration and through cataracts and into choroidal vs. 800 nm: Reduced scattering for enhanced Austria); W. Drexler, Cardiff Univ. (United

Conference 6627 continues page 26.

Tuesday 19 June Conf. 6631 (NOI)

...... Tues. 13.30 to 15.00 Room B12

SESSION 7

Chair: Christian D. Depeursinge, École Polytechnique Fédérale de Lausanne **Assorted Novel Technologies** (Switzerland)

(Germany); A. Lebert, Institute of Biocybernetics and Biomedical Engineering (Poland); M. Möller, Hochschule für Fechrik und Wirtschaft des Saarlandes (Germany); S. Leistner, B. Mackert, Charite Universitätsmedizin Berlin (Germany); R. Macdonald, L. [6631-36] 13.30: Laser interference measurement of glucose 13.45: Combination of time-domain optical brain imaging and DC magnetoencephalography for studying neurovascular coupling, H. Wabnitz, T. Sander, Physikalisch-Technische Bundesanstalt Frahms, Physikalisch-Technische Bundesanstalt in liquids, H. M. El Ghandoor, Ain Shams Univ

14.45: Wavelet-based terahertz local tomography, X. Yin, The Univ. of Adelaide (Australia)[6631-38] Politecnica delle Marche (Italy)[6631-39] Warwickshire NHS Trust (United Kingdom) . [6631-40] dedicated and multi-modality in vivo small animal imaging, J. Peter, R. B. Schulz, D. Unholtz, W. Semmler, Deutsches Krebsforschungszentrum monitoring of the cardiac activity: correlation with heart sounds from phonocardiography, L. Scalise, system incorporating broadband optical filters, D. 14.15: Optical vibrocardiography for non contact 14.30: Observation of IPL spectra using detector M. De Melis, U. Morbiducci, E. P. Tomasini, Univ. 14.00: A novel optical detector concept for Clarkson, Univ. Hospitals Coventry and (Germany)

choroid, S. Makita, Univ. of Tsukuba (Japan); Y. Hong, Univ. of Tsukuba (Japan) and KAIST (South Korea); M. Miura,

• 13.30 to 16.00 Conf. 6632 (TLA) **SESSION 6**

Room 11 Tues. 13.30 to 15.00

Chair: Holger Lubatschowski, Laser Zentrum Ophthalmology: Cornea and Retina Hannover e.V. (Germany)

welding in a human cornea, F. Rossi, P. Matteini, R. Pini, Istituto di Fisica Applicata Nello Carrara (Italy); L. Menabuoni, Azienda USL 4 (Italy) [6632-25] 13.30: Temperature control during diode laser

Édouard Herriot (France); J. Legeais, Hôpital Hôtel Dieu (France)[6632-26] (France); M. Savoldelli, Hôpital Hôtel Dieu (France); D. Donate, Hôpital Hôtel Dieu (France) and Hôpital 13.45: Femtosecond laser keratoplasty: reducing side effects and improving penetration depth, K. Plamann, V. Nuzzo, O. Albert, G. A. Mourou, École Nationale Supérieure de Techniques Avancées

14.00: Femtosecond refractive eye surgery: study of Wavelight Laser Technologie AG (Germany); D. Bruneel, Univ. Jean Monnet Saint-Etienne (France); C. Donitzky, Wavelight Laser Technologie AG (Germany); K. König, (Germany)[6632-27] laser parameters for even more efficiency and safety, R. Le Harzic, Fraunhofer-Institut für Biomedizinische Technik (Germany); C. Wüllner, Fraunhofer-Institut für Biomedizinische Technik

Lübeck GmbH (Germany); K. Schlott, J. Kandulla, R. Birngruber, Univ. zu Lübeck (Germany) [6632-28] 14.45: Interferometric optical online dosimetry for 14.15: Retinal temperature determination during Stalljohann, B. Weber, Medizinisches Laserzentrum Ptaszynski, A. Fritz, R. Brinkmann, Univ. zu Lübeck Brinkmann, Univ. zu Lübeck (Germany); J. U. selective retina treatment (SRT), H. Stoehr, laser photocoagulation (Invited Paper), R.

Conference 6632 continues page 26.

End of Conference

Conf. 6633 (BOLS)

SESSION 5

Room BO.R2 Tues, 13.30 to 14.30 Innovative Analysis, Detection and **Understanding Life Processes:**

Chair: Michael Schmitt, Friedrich-Schiller-Univ. Diganostic Methods V Jena (Germany)

substrates based on nanometre scale structures on butterfly wings, J. J. Moger, N. L. Cornes, G. Winter, P. Vukusic, C. P. Winlove, The Univ. of Exeter (United internal reflexion fluorescence microscopy: application to live cell imaging, V. Studer, Y. Goulam-Houssen, E. Le Moal, A. Simon, Z. Lenkei, E. Fort, 13.30: Tip-enhanced Raman scattering: pushing the (Germany) [6633-21] Industrielles (France)[6633-22] 14.00: Wide field surface plasmon-enhanced total Deckert, Institute for Analytical Sciences Dortmund limits of structural analysis (Invited Paper), V. 14.15: Surface-enhanced Raman scattering École Supérieure de Physique et de Chimie

SESSION 6 Kingdom)

Photonics Micromanipulation Tools I Engaging Life Processes: New

Room BO.R2 Tues, 14,30 to 16.00

Chair: Josef A. Käs, Univ. Leipzig (Germany)

14.30: Recent progresses in optical trap-and-stretch of red blood cells (Invited Paper), A. E. T. Chiou, G. B. Liao, Y. Chen, A. V. Karmenyan, C. Lin, National Yang-Ming Univ. (Taiwan) Fernandes, A. A. de Thomas, L. C. Barbosa, M. d. L. Barjas-Castro, C. L. Cesar, Univ. Estadual de Campinas Fujitsu Labs. (Japan)[6633-27] Fechnologies GmbH (Germany)[6633-25] 15.00: Lasers as unique tools for cell manipulation adherent cells, S. Youoku, Y. Suto, M. Ando, A. Ito, measuring electrical and mechanical properties 15,30: Studying red blood cell agglutination by with a double optical tweezers, A. Fontes, H. P. (Invited Paper), K. Schütze, P.A.L.M. Microlaser 15.45: Automated microinjection system for (Brazil)

Coffee Break Conference 6633 continues page 27.

Tuesday 19 June • V Posters

Poster presenters may post their poster papers Tuesday morning and will need to remove their posters immediately following the poster session that afternoon. Poster authors must be at their papers during the poster session from 15.00-16.00 to discuss the poster with session attendees.

Conf. 6628 (DOS)

Chair: Dietrich Schweitzer, Friedrich-Schiller-Univ. Jena (Germany)

- Mutitiocal multiphoton microscopy using a novel field of view zoom scanning protocol, L. Liu, L. Wang, J. Qu, Z. Lin, Z. Fu, H. Niu, Shenzhen Univ. (China)[6628-11]
- V Glass based fluorescence reference materials, A. Engel, C. R. Otterman, V. Rupertus, SCHOTT AG (Germany); U. Resch-Genger, K. SCHOTT AG (Germany); U. Kesch-Genger, K. Hoffmann, Bundesanstalt für Materialforschung und -prüfung (Germany); U. Kynast, Fachhochschule Muenster (Germany)
 - Keflectance spectrophotometry as intraoperative assessment of perfusion in rectal anastomosis: a feasibility study. A. Karliczek, Martini Hospital (Netherlands) and Groningen Univ. Medical Ctr. (Netherlands). D. A. den anon., Spectros Corp. (USA); P. Baas, A. van der Stoel, Martini Hospital (Netherlands). T. Wiggers, Groningen Univ. Medical Ctr. (Netherlands), G. M. van Dam, Groningen Univ. Medical Ctr. (Netherlands) and BioOptical Inaging Ctr. (Netherlands) and BioOptical Imaging Ctr. Groningen (Netherlands)
- v In vivo measurement of the carotenoid level using portable resonance Raman spectroscopy, Y. Shao, J. Qu, Y. He, Shenzhen Univ. (China)
- A diffusion approximation model of light transport in multi-layered skin tissue, M. I.
 Makropulou-Loukogiannaki, E. Kaselouris, E. A.
 Darkaki, A. A. Serafetinides, National Technical Univ. of Athens (Greece) [6628-44]
 Intracellular protein mass spectroscopy using
 - mid-infrared faser ionization, K. Awazu, S. Suzuki, Osaka Univ. (Japan) [6628-49]

 **Time-resolved diffuse optical spectroscopy of small tissue samples, P. Taroni, D. Comelli, A. Fanna, A. Piffen, Polifecnico di Milano (Italy); A.

Kienle, Univ. Ulm (Germany)[6628-50]

v Single photon spectrometer for biomedical application: new developments, S. S. Tudisco, L. L. Lanzano, F. F. Musumeci, S. S. Privitera, A. A. Scordino, Instituto Nazionale di Fisica Nucleare (Italy) and Univ. di Catania (Italy); G. G. Fallica, M. M. Mazzillo, D. D. Sanfilippo, G. G. Valvo, STMicroelectronics (Italy) [6628-51]

✓ Optical spectroscopy of phosphatic urinary calculi, 1. H. Yarynovska, A. I. Bilyi, Ivan Franko National Univ. of L'viv (Ukraine) [6628-52]

- V Detection of abnormalities in tissue equivalent phantoms by multi-probe laser reflectometry, P. P. S., M. Kumaravel, M. Singh, Indian Institute of Technology Madras (India)
- ✓ Application in the surgery planning of brain atlas of the three-dimension, H. Xiao, F. Dai, X. Chen, South China Normal Univ. (China)
 ✓ Contact probe pressure effects in skin multispectral photoplethysmography, J. Spigulis, L. Gailite, A. Lihachev, Latvijas Univ. [6628-55]
- White-light time-resolved reflectance spectroscopy for monitoring constituents concentrations in layered diffusive media, A Giusto, C. D'Andrea, L. Spinelli, D. Contini, A. Torricelli, Politecnico di Milano (taly); F. Marfelli, Cubedut, Univ. degli Studi di Firenze (ttaly); R. Cubeddut, Politecnico di Milano (ttaly). (628-56)
- Spectroscopic measurement of adipose tissue thickness and comparison with ultrasound imaging. D. Geraskin, H. Boeth, RheinAhrCampus (Germany); M. Kohl-Bareis, Univ. of Applied Sciences Koblens (Germany)
 Phosphorescence quenching in the vicinity of
- Phosphorescence quenching in the vicinity of gold nanoparticles, M. Bingler, T. Soller, Ludwig-Maximilians-Univ. München (Germany); M. Wundenlich, Y. Markert, H. Josel, A. Nichtl, K. Kürzinger, Roche Diagnostics GmbH (Germany); T. A. Klar, J. Feldmann, Ludwig-Maximilians-Univ. München (Germany) Light-induced autoditurescence of animal
 - skin used in tissue optical modeling, I.
 Bliznakova, E. G. Borisova, Institute of
 Electronics (Bulgaria); P. Troyanova, National
 Oncological Ctr. (Bulgaria); L. Avramov, Institute
 of Electronics (Bulgaria) [6628-60]
 Fluorescence study of bovine serum albumin
 and Ti and Sn oxide nanonarticles
 - and Ti and Sn oxide nanoparticles interactions, D. M. Togashi, D. McMahon, P. Dunne, J. McManus, A. G. Ryder, National Univ. of Ireland/Galway (Ireland)

Conf. 6629 (DOI)

Chair: **Rinaldo Cubeddu**, Politecnico di Milano (Italv)

- V Functional imaging of autoregulation, R. L. Barbour, SUNY/Downstate Medical Ctr. (USA) and NIRX Medical Technologies, LLC (USA); Y. Pei, NIRX Medical Technologies, LLC (USA); M. Farber, SUNY/Downstate Medical Ctr. (USA); H. L. Graber, SUNY/Downstate Medical Ctr. (USA) and NIRX Medical Technologies, LLC (USA); X. Xu, D. Sreedharan, SUNY/Downstate Medical Ctr. (USA); C. H. Schmitz, NIRX Medical Technologies, LLC (USA); G. T. Voelbel, G. R. Wylie, J. Lengenfelder, J. Deluca, Kessler Medical Rehabilitation

 N. Deluca, Kessler Medical Rehabilitation

 Hesearch and Education Corp. (USA) [6629-23]
 - ✓ High frequency oscillations in brain hemodynamic response, A. Akin, Bogaziçi Univ (Turkey); H. Bolay, Gazi Univ. (Turkey) [6629-50]
- Analysis of skin recovery from mechanical indentation using diffuse lighting and digital imaging, N. T. Clancy, M. J. Leahy, Univ. of Limerick (Ireland); G. E. Nilsson, C. Anderson, Linköpings Univ. (Sweden)
- Skin concert tumour imaging. D. S. Gorpas, M. Kyriazi, K. Politopoulos, D. M. Yova, National Technical Univ. of Athens (Greece) . . . [6629-54]

- Continuous performance test assessed with time-domain functional near infrared spectroscopy, A. Torricelli, D. Contini, L. Spinelli, M. Caffrini, M. Butti, G. Baselli, A. M. Bianchii, Politecnico di Milano (Italy); A. Bardoni, IRCCS E. Medea (Italy); S. Centti, R. Cubeddu, Politecnico di Milano (Italy).
- / Measurement of the phase function of phantoms and biological media with a 2 axis goniometer, R. Michels, A. Kienle, Univ. Ulm (Germany)
- Spatial resolved diffuse reflection as a tool for determination of size and embedding depth of blood vessels, A. V. Bykov, M.Y. Lomonosov Moscow State Univ. (Russia) and Univ. of Oulu (Finland); A. V. Priezzhev, M.Y. Lomonosov Moscow State Univ. (Russia); R. A. Myllylä, Univ. of Oulu (Finland).
- Optical tomography of small tissue volumes with the ERI: frequency-domain sensitivity analysis, X. Gu, Columbia Univ. (USA); U. Netz, J. Beuthan, Charife-Univ. Medicine Berlin (Gemany); A. H. Hielscher, Columbia Univ. (USA) [6629-62]
 - ✓ Transmission RF diffuse optical tomography instrument for human breast imaging, K. Lee, S. D. Konecky, A. Corlu, R. Choe, T. Durduran, A. G. Yodh, Univ. of Pennsylvania (USA). [6629-63]
- Correction of dead-time related distortions in time-correlated single photon counting at high count rates, H. Wabnitz, Physikalisch-Technische Bundesanstatt (Germany); M. Möller, Hochschule für Technik und Wirtschaft des Saarlandes (Germany); W. Becker, Becker & Hickl GmbH (Germany); R. Macdonald, Physikalisch-Technische Bundesanstatt (Germany); [6629-64]
- ' Approach to estimating low contrast inclusion with a priori guidance, M. Pan, C. Chen, L. Chen, National Central Univ. (Taiwan); M. Pan, Traiwan) and Institute of Technology (Taiwan).

Tuesday 19 June

papers during the poster session from 15.00-16.00 to discuss the poster with session attendees. Poster presenters may post their poster papers Tuesday morning and will need to remove their posters immediately following the poster session that evening. Poster authors must be at their

Conf. 6632 (TLA)

Chair: Alfred Vogel, Univ. zu Lübeck (Germany)

- K562 cells, R. Ion, Institutul National de Cercetare (Romania) and Valahia Univ. (Romania); M. Neagu Institute (Romania); M. Calin, National Institute of R&D for Optoelectronics (Romania) ... [6632-57] Mechanisms in photodynamic therapy: photosensitizers and cellular localization on G. Manda, C. Constantin, Victor Babes National
- A. Z. Kawczyk-Krupka, W. Latos, A. Kosciarz-Grzesiok, A. Misiak, A. E. Ledwon, S. Kwiatek, A. in the treatment of multifocal oral leukoplakia, Photodynamic therapy as a method of choice (Poland)[6632-58] Sieron, Medical Univ. of Silesia, Katowice
 - Real-time evaluation of tissue properties for feed-back dosimetry in interstitial photodynamic therapy, J. Axelsson, A. Johansson, Lunds Tekniska Högskola (Sweden); Lunds Tekniska Högskola (Sweden) . . [6632-59] J. Swartling, T. Johansson, Spectracure AB (Sweden); S. Pålsson, Lunds Univ. (Sweden); J. Stensson, Spectracure AB (Sweden); K. Svanberg, N. Bendsoe, Lund Univ. Hospital (Sweden); S. Svanberg, S. Andersson-Engels,
- Antimicrobial activity of water-soluble cationic[6632-60] (Armenia); A. G. Gyulkhandanyan, Yerevan State porphyrins, G. V. Gyulkhandanyan, Institute of Biotechnology (Armenia); R. K. Ghazaryan, Yerevan State Medical Univ. (Armenia); A. Hovsepyan, M. Paronyan, S. S. Ghambaryan, Institute of Biotechnology (Armenia); A. G. Tovmasyan, Yerevan State Medical Univ. Univ. (Armenia)
- Synthesis and anticancer activity of new water-Biotechnology (Armenia)[6632-61] soluble cationic (metallo)porphyrins, A. G. Gasparyan, N. Babayan, Yerevan State Univ. (Armenia); G. V. Gyulkhandanyan, Institute of Tovmasyan, R. K. Ghazaryan, L. Sahakyan, Yerevan State Medical Univ. (Armenia); G.
- Intermediates and Dyes Institute (Russia)[6632-62] Moscow Research Oncological Institute (Russia); Aqueous gel as effective delivery system of 5aminolevulinic acid, V. M. Negrimovsky, N. A. Sakharova, Organic Intermediates and Dyes Pankratov, R. I. Yakubovskaya, P. A. Hertzen E. A. Lukyanets, G. N. Vorozhtsov, Organic Institute (Russia); N. I. Kazachkina, A. A.

-[6632-63] Prokhorov General Physics Institute (Russia); S. Kiseleva, S. Shevchik, V. B. Loschenov II, A.M Photodynamic therapy for the choroidal neovascularization, M. Budzinskaya, T. G. Kuzmin, G. N. Vorozhtsov, Organic Intermediates and Dyes Institute (Russia)
- Altunin, Ministry of Health (Russia); S. G. Kuzmin, (Russia); G. N. Vorozhtsov, I.M. Sechenov Moscow Medical Academy (Russia) . . [6632-64] bladder cancer, O. Apolikhin, I. Chernyshev, D. Adjuvant photodynamic therapy (PDT) with photosensitizer photosens for superficial Organic Intermediates and Dyes Institute
- Institute (Russia)[6632-65] metastasis, V. Likhvantseva, E. Osipova, M. Petrenko, O. Merzlyakova, Russian Academy of Vorozhtsov, Organic Intermediates and Dyes Results of photodynamic therapy in the combined treatment of the choroidal Sciences (Russia); S. G. Kuzmín, G. N.
- absorption, E. Spyratou, M. I. Makropoulou-Loukogiannaki, C. Bacharis, A. A. Serafetinides, National Technical Univ. of Athens ✓ Mid-infrared porcine cornea ablation measurements and the role of water (Greece)
- (Germany)[6632-67] photocoagulation, K. Schlott, Univ. zu Lübeck Lübeck GmbH (Germany); J. U. Stalljohann, B. GmbH (Germany); J. Kandulla, K. Hermann, R. Weber, Medizinisches Laserzentrum Lübeck (Germany) and Medizinisches Laserzentrum Birngruber, R. Brinkmann, Univ. zu Lübeck Optoacoustic online temperature determination during retinal laser
- (Germany) [6632-68] Dynamics and detection of laser induced epithelium (RPE), A. Fritz, L. Ptaszynski, H. Stoehr, R. Brinkmann, Univ. zu Lübeck microbubbles in the retinal pigment

Posters

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Conf. 6633 (BOLS)

Chair: Jürgen Popp, Friedrich-Schiller-Univ. Jena (Germany)

- Amirkabir Univ. of Technology (Iran) ... [6633-49] nanospheres containing betametazon, M. E. Khosroshahi, J. Tavakoli, M. Enayati, S. Shafiei Evaluation of drug release from PLGA
- Sumriddetchkajorn, Office of the Council of State (Thailand)[6633-50] ✓ A field test study of our non-invasive thermal Sumriddetchkajorn, A. Somboonkaew, National image analyzer for deceptive detection, S. Electronics and Computer Technology Ctr. (Thailand); T. Sodsong, I. Promduang, N.
- depletion in albumin suspension, J. Baier, M. Loibi, J. Regensburger, T. Maisch, W. Bäumler, Univ. Regensburg (Germany) [6633-51] Singlet oxygen luminescence reveals oxygen
- Development and performance characteristics of flash lamp pumped Yb:YAG, Cr:Tm:Ho:YAG, Er:Tm:Ho:YLF laser sources and investigation Technical Univ. of Athens (Greece) ... [6633-52] of their potential biological applications, A. A. Serafetinides, D. N. Papadopoulos, N. K. Karadimitriou, B. J. Klinkenberg, National
- changes in chest-circumference, M. Pinchas, A. A fiber optic sensor for measuring respiratory[6633-53] Avraham, A. Babchenko, I. Faib, S. Mizrahi, M. Nitzan, Jerusalem College of Technology (Israel)
- Spontaneous ultra-weak photon emission from Institute of Photonics and Electronics of Academy International Institute of Biophysics (Germany); R Van Wijk, Univ. Utrecht (Netherlands) . [6633-54] human hands varies diurnally, M. Cifra, Czech Technical Univ. in Prague (Czech Republic) and of Sciences (Czech Republic); E. P. A. Van Wijk,
 - Nucleare (Italy); A. A. Scordino, Instituto Nazionale (Italy); S. S. Tudisco, Instituto Nazionale di Fisica Di Fisica Nucleare (Italy)[6633-55] Musumeci, Univ. di Catania (Italy) and LNS-INFN (Italy); L. L. Lanzanò, Instituto Nazionale di Fisica Nucleare (Italy) and Univ. di Catania (Italy); S. S. Privitera, LNS-INFN (Italy) and Univ. di Catania luminescence from human skin in vivo, F. F. Spectral analysis of photoinduced delayed
- nanopipettes, J. Vogelsang, S. Doose, M. Sauer P. Tinnefeld, Univ. Bielefeld (Germany) [6633-56] ✓ Improving spFRET by confining molecules in

- Univ. Bielefeld (Germany)[6633-57] quenching processes on Förster resonance energy transfer, R. Brune, S. Doose, M. Sauer Analyzing the influence of contact-induced
- Sonoluminescence from ultrasound contrast agent microbubbles, P. A. Campbell, P. A. Prentice, Univ. of Dundee (United
- Time-resolved diffuse optical spectroscopy of Kingdom)[6633-58]
- Discrimination of normal and colorectal cancer Politecnico di Milano (Italy) [6633-59] using Raman spectroscopy and fluorescence, wood, C. D'Andrea, A. Farina, D. Comelli, A. Pifferi, P. Taroni, G. Valentini, R. Cubeddu,
 - Y. Wang, Shenyang Ligong Univ. (China)[6633-60]
- MUSES: MUlti Sensors Sphere, S. S. Tudisco, L. L. Lanzanò, Instituto Nazionale di Fisica Nucleare (Italy) and Univ. di Catania (Italy); F. F. Musumeci, Univ. di Catania (Italy); S. S. Privitera, Instituto Catania (Italy); A. A. Scordino, Instituto Nazionale Nazionale di Fisica Nucleare (Italy) and Univ. di Di Fisica Nucleare (Italy) and Univ. di Catania
- detection of the dynamically structured state of human serum albumin, A. G. Melnikov, Saratov State Univ. (Russia) ✓ Methods of the probe luminescence in the
 - Züchtungsforschung an Kulturpflanzen (Germany); (Germany)[6633-64] non-destructive investigation, P. Roesch, S. Reitzenstein, M. A. Strehle, D. Berg, Friedrich-Schiller-Univ. Jena (Germany); M. Baranska, H. Raman spectroscopy as an analytic tool for J. Popp, Friedrich-Schiller-Univ. Jena Schulz, E. Rudloff, Bundesanstalt für
- (Germany); H. Schulz, Bundesanstalt für Züchtungsforschung an Kulturpflanzen (Germany); and Institut für Physikalische Hochtechnologie e.V. secondary metabolites in plants, K. R. Strehle, (Germany)[6633-65] J. Popp, Friedrich-Schiller-Univ. Jena (Germany) Raman spectroscopic characterization of P. Roesch, Friedrich-Schiller-Univ. Jena
- Univ. Jena (Germany); J. Popp, Friedrich-Schillerbacteria, D. Cialla, P. Roesch, Friedrich-Schiller-Technology (Germany)[6633-66] Univ. Jena (Germany) and Institute of Photonic SERS as analytical tool for detection of

Tuesday 19 June • V Posters

Poster presenters may post their poster papers Tuesday morning and will need to remove their posters immediately following the poster session that afternoon. Poster authors must be at their papers during the poster session from 15.00-16.00 to discuss the poster with session attendees.

Conf. 6628 (DOS)

- inside a tissue-simulating phantom using piosecond time-resolved imaging, R. Boursou, T. Betz, Charife-Univ, Medicine Berlin (Germany); J. Voigt, J. Berger, Physikalisch-Technische Bundesanstalt (Germany); J. M. Steinbrink, Charife-Univ, Medizin Berlin (Germany); R. Macdonald, B. Ebert, Physikalisch-Echnische Bundesanstalt (Germany); A. McGonald, B. Ebert, Germany); P. Chenische Bundesanstalt (Germany); P. Germany)
- Clinical and pathophysiological aspects of hyperglycemia by ATR-FTIR spectroscopy, N. S. Eikje, K. Aizawa, T. Sota, Wasseda Univ. (Japan)
- Excitation emission matrix measurements support use of a broad excitation range for the determination of cardiovascular risk from skin autofluorescence, M. Koetsier, H. L. Lutgers, T. P. Links, A. J. Smit, R. Graaff, Groningen Unix. Medical Ctt. (Netherlands)
- Spectroscopic study of demineralization and restoration processes in dental enamel, T. N. Sokolova, E. L. Surmenko, Saratov State Technical Univ. (Russia); V. V. Tuchin, Saratov State Univ. (Russia); V. V. Kishen, National Univ. of Singapore (Singapore); Y. V. Chebotarevsky, Saratov State Technical Univ. (Russia) [6628-66]
 - Saratov State Technical Univ. (Hussita) [bo28-bo]
 Coular fundus diagnostics and treatment in pseudo-transformed light with digital processing of the image, T. N. Sokolova, Saratov State Technical Univ. (Russia); I. B. Soloveychik, Y. Y. Maximov, Saratov Regional Ophthalmologic Hospital (Russia); E. L. Surmenko, Saratov State Technical Univ. (Russia)

Conf. 6629 (DOI)

- / Intra-operative probe for brain cancer:
 feasibility study, M. Vu Thi, Univ. Paris-Sud II
 / Fance)
 / Panceatic tissue assessment using
 fluorescence and reflectance spectroscopy,
 M. Chandra, Univ. of Michigan (USA). D. Heidt,
 D. Simeone, B. McKenna, J. Scheiman, Univ. of Michigan Medical School (USA); M. Mycek, Univ.
 of Michigan (USA). M. Mycek, Univ.
 of Michigan (USA). M. Mycek, Univ.
 of Michigan (USA). M. Mycek, Univ.
 Imperial College Lc
 Kingdom).
 - V Reconstruction of stratum corneum profile of porcine ear skin after tape stripping using UV/ VIS spectroscopy, A. P. Popov, Univ. of Oulu (Finland); J. Lademann, Humboldt Univ zu Berlin (Germanny); A. V. Priezzhev, M. V. Lomonosov Moscow State Univ. (Russia); R. A. Myllylä, Univ. of Oulu (Finland)

(29 (DOI) (

- refluorescence lifetime imaging through turbid media reconstructed in the Fourier domain using time gated imaging data, V. Y. Soloviev, Univ. College London (United Kingdom); K. Tahir, J. A. McGinty, D. S. Elson, M. A. A. Neil, A. Sardini, J. V. Hajnal, Imperial College London (United Kingdom); S. R. Arridge, Univ. College London (United Kingdom); P. M. W. French, Imperial College London (United Kingdom).

Conf. 6632 (TLA)

- v Influence of choroidal perfusion on retinal temperature increase during retinal laser treatments, K. Hermann, Univ. zu Lübeck (Germany); C. Flöhr, Univ. Eye Hospital (Germany); J. U. Stalljohann, Medizinisches Laserzentrum Lübeck GmbH (Germany); Apiou-Sbrihea, Air Liquide (France); J. Kandulla, Univ. zu Lübeck (Germany); R. Birngruber, R. Brinkmann, Medizinisches Laserzentrum Lübeck GmbH (Germany).
- Cationic colloidal gold assisting delivery of macromolecular fluoresceins into target CHO-Kt cells by focused femtosecond laser, Z. Li, Z. Zhang, Xi'an Jiaotong Univ. (China); G. Hüttmann, Univ. zu Lübeck (Germany) (6632-72) Coffee Break

Tuesday 19 June • V Posters

Poster presenters may post their poster papers Monday-morning and will need to remove their posters immediately on Wednesday at the end of the conference. Poster authors must be at their papers during the poster session from 16.30-17.30 to discuss the poster with session attendees.

Conf. 6633 (BOLS)

- Characterization of silver nanoparticles deposited by an enzyme, T. Schiller, R. Möller, Friedrich-Schiller-Univ, Jena (Germany); A. Steinbrück, W. Fritzsche, Institut für Physikalische Hochtechnologie e.V. (Germany); J. Popp, Friedrich-Schiller-Univ. Jena (Germany); and Institut of Photonic Technology
 (Germany)
- ✓ Towards an understanding of the mode of action of fluoroquinolone drugs, U. Neugebauer, Friedrich-Schiller-Univ. Jena (Germany); U. Schmid, K. Baumann, Technische Univ. Braunschweig (Germany); U. Holzgrabe, Univ. Würzburg (Germany); M. Schmitt, J. Popp, Friedrich-Schiller-Univ. Jena (Germany)[6633-68]
- Y Raman label for DNA detection by means of SERRS, K. K. Hering, R. Möller, J. Popp, Friedrich-Schiller-Univ. Jena (Germany)[6633-69]
- Physical limits to autofluorescence signals recordings in the rat offactory bulb in vivo: a Monte Carlo study, B. L'Heureux, H. Gurden, L. Pinot, R. Mastrippolito, F. Lefebvre, P. Lanièce, F. Pain, Univ. Paris-Sud II (France) [6633-70]
- ✓ Towards ultra-stable fluorescent dyes for single-molecule spectroscopy, R. Kasper, Bielefeld Univ. (Germany)[6633-71]

Two photon microscopy for studies of

GmbH (Germany)[6633-73]

- Image reconstruction of the location of macro-inhomogeneity in random turbid medium by using artificial neural networks, B. A. Veksler, Cranfield Univ. (United Kingdom); A. V. Kovaleva, Saratov State Univ. (Russia); I. V. Meglinski, Cranfield Univ. (United Kingdom); I. L. Maksimova, Saratov State Univ. (Bussia).
- Photoinduced electron transfer (PET)-probes for the study of enzyme activity at the ensemble and single-molecule level, S. Henkenjohann, S. Doose, P. Tinnefeld, M. Sauer, Bielefeld Univ. (Germany) [6633-75]

- Towards a real-time technology for the identification of native biosensosis, M. Krause, P. Roesch, Friedrich-Schiller-Univ. Jena (Germany); M. Lankers, rap. ID Particle Systems GmbH (Germany); J. Popp, Friedrich-Schiller-Univ. Jena (Germany) and Institute for Physical Hightechnology (Germany).
 - V Drug search: in situ UV Raman microscopic localization of anti malaria active agents in plant material. Frosch, L. Zedler, M. Schmitt, Friedrich-Schiller-Univ. Jona (Germany); T. Nopl, G. Bringmann, Univ. Würzburg (Germany); J. Popp, Friedrich-Schiller-Univ. Jena (Germany) [6633-77]
- w A parallel approach for sub-wavelength molecular surgery using gene-specific positioned metal nanoparticles as laser light antennas, A. Csaki, G. Festag, F. Garwe, Institut für Physikalische Hochtechnologie e.V. (Germany); G. Maubach, Institut of Bioengineering and Nanotechology (Singapore); K. Mrasek, Friedrich-Schiller-Univ. Jena (Germany); I. Riemann, Fraunhofer-Institut für Biomedizinische Technik (Germany); T. Schüler, A. Steinbrück, Institut für Physikalische Hochtechnologie e.V. (Germany); K. Weise, Friedrich-Schiller-Univ. Jena (Germany); K. König, Fraunhofer-Institut für Biomedizinische Technik (Germany); W. Fritzsche, Institut für Physikalische Hochtechnologie e.V. (Germany); K. Fritzsche, Institut für Physikalische Hochtechnologie e.V. (Germany)
 - v Investigation of biotic and abiotic soil components by means of various spectroscopic methods, A. Walter, P. Roesch, S. Jezewski, M. Reinicke, E. Kothe, Friedrich-Schiller-Univ. Jena (Germany); J. Popp, Friedrich-Schiller-Univ. Jena (Germany) and Institut für Physikalische Hochtechnologie, Jena (Germany) . . . [6633-79]
- Characterization of human plasma by means of vibrational spectroscopy, M. K. Harz, R. Claus, P. Roesch, C. Bockmeyer, K. Kentouche, Friedrich-Schiller-Univ. Jena (Germany); H. Deigner, Univ. of East Anglia Norwich (United Kingdom); J. Popp, Friedrich-Schiller-Univ. Jena (Germany)[6633-80]
- Retinal image quality with the different types of intracoular lenses including new idea of the hybrid (DLs. D. Sledlecki, M. Zajac, J. Nowak, Politechnika Wroclawska (Poland) ... [6633-81]

- ' Peptide-based optical contrast agents for targeting of intestinal malignancies, A. Frey, N. Böckendorf, N. Fujimoto, K. Wehry, Research Ctr. Borstel (Sermany); M. Bürger, Gesellschaft für Silizium Mikrosysteme mbH (Germany); J. Helfmann, Laser- und Medizin-Technologie GmbH Bertlin (Germany)
 - / Objective evaluation of linear feature orientation in a two-dimensional image: applications on skin imaging, G. N. Starnatas, A. Nkengne, A. Lopes, C. Bertin, A. Rossi, Johnson & Johnson Consumer France S.A.S. (France)

✓ Development of microfluidic structures for

- high throughput flow cytometric characterization of blood cells, A Kummrow, H. Hidrim, Physikalisch-Technische Bundesanstalt (Germany); J. Theisen, Technische Univ. Berlin (Germany); K. Brattke, Physikalisch-Technische Bundesanstalt (Germany); C. Sprenger, M. Schmidt, Technische Univ. Berlin (Germany); J. Neukammer, Physikalisch-Technische
- Highly sensitive detection of target molecules using a new fluorescence-based bead assay,
 S. Scheffler, D. Strauss, M. Sauer, Univ. Bieleffeld (Germany)

Bundesanstalt (Germany) [6633-84]

Vertein chip analysis by probing time-resolved UV-fluorescence, P. M. Schellenberg, Institut für Physikalische Hochtechnologie e.V. (Germany); R. Dietrich, Schott Jenaer Glas GmbH (Germany); W. Fritzsche, Institut für Physikalische Hochtechnologie e.V. (Germany); K. O. Greulich, P. Griggaravicus, Fritz Lipmann Institute (Germany); U. Horn, Hans-Knöll-Institute

(Germany); D. Knoll, Schott Jenaer Glas GmbH (Germany); S. Peters, Institut für Physikalische

- V Diffractometry analysis of human and rat erythrocytes deformability under ischemia, A. E. Lugovtsov, A. V. Priezzhev, S. Y. Nikitin, V. B. Koshelev, M.V. Lomonosov Moscow State Univ. (Russia)
- Ultraweak delayed luminescence of dry seeds, R. Neurohr, G. A. Stanciu, Univ.
 Politehnica Bucuresti (Romania) [6633-89]
 - V Preparation and optical characterization of core-shell bi-metal nanoparticles, A. core-thornore, A. Caski, G. Festag, T. Schüler, W. Fritzsche, Institut für Physikalische Hochtechnologie e.V. (Germany)
- Luminescent nanoparticles for molecular medicine, H. Hummel, V. Weiler, Philips Tessarch Labs. (Germany); W. Hoheisel, Bayer Technology Services GmbH (Germany); C. Walter, M. Haase, Univ. Osnabrück (Germany)
- tribetamid interaction, A. O. Dudko, National Taras Shevchenko Univ. of Kyiv (Ukraine)(6633-93

The luminescent manifestation of the DNA:

Conf. 6627 (OCT)

Room 5 Tues. 16.30 to 17.30

SESSION 10

Polarisation sensitive OCT

Chair: Johannes F. DeBoer, Massachusetts General Hospital (USA)

macula and nerve head disorders (invited Paper), C. K. Hitzenberger, E. Götzinger, M. Pircher, B. Baumann, S. Michels, W. Geitzenauer, C. Vass, U. Schmidt-Erfurth, Medizinische Univ. Wien (Austria) ... [6627-51] 16.30: Polarization sensitive OCT in patients with

coherence tomography for the imaging the anterior segment disorder of the eyes, M. Miura. Tokyo Medical Univ. Kasumigaura Hospital (Japan) and Univ. of Isukuba (Japan); M. Yamanari, Univ. of Tsukuba (Japan); Y. Watabnabe, H. Mori, Tokyo Medical Univ. (Japan) and Univ. of Tsukuba (Japan); T. Tusasaki, Tokyo Medical Univ. (Japan), A. E. Elsner, Indiana Univ. (JSA); K. Kawana, T. Oshika, T. Yatagai, Y. Yasuno, Univ. (JSA). contrast image in tissue polarimetry, J. L. Arce-Diego, F. Fanjul-Vélez, D. Pereda-Cubián, Univ. de Cantabria (Spain) [6627-54] Isukuba (Japan)[6627-52] 17.00: Polarization-sensitive Fourier-domain optical 17.15: Mueller coherency matrix method for

Tuesday 19 June • 16.30 to 17.30 Conf. 6632 (TLA)

SESSION 7

Room 11Tues. 16.30 to 17.30

Chair: Ralf Brinkmann, Univ. zu Lübeck Ophthalmology: Lens

16.30: Ophthalmic drug delivery utilizing two-(Germany)

Marburg (Germany)[6632-30] 16.45: Materials for intraocular lenses enabaling photo-controlled tuning of focal length in vivo, J. K. Träger, H. Kim, Philipps-Univ. Marburg (Germany); N. Hampp, Philipps-Univ. Marburg (Germany) and University of Marburg (Germany)[6632-31] photon absorption: a novel approach to treat posterior capsule opacification, H. Kim, J. K. Träger, M. Zorn, N. Haberkorn, N. Hampp, Philipps-Univ. 17.00: Fs-Lentotomie: changing the

accommodation amplitude of presbyopic human crystalline lenses by its laser pulses, S. Schumacher, Laser Zentrum Hannover e. V. (Germany); U. Oberhiede, E. Schrom Ashorover e. V. (Germany); H. Theuer, M. Fromm, T. Sipken, Laser Zentrum Hannover e. V. (Germany); G. Gerten, Laser Zentrum Hannover e. V. (Germany); W. A. Ertmer, Univ. Hannover (Germany); H. Lubatschowski, Laser Zentrum Hannover e.V. (Germany)[6632-32]

■ End of Conference

17.15: Femtosecond laser-induced cavitations in the lens of the human eye, L. Kessl, J. Nymand, M. Harbkat, Copenhagen Univ. Hospital Glostrup. (Denmark); M. v. d. Poel, Danmarks Tekniske Univ. (Denmark) [6632-33] (Denmark); M. Larsen, Univ. of Copenhagen (Denmark) and Kennedy Institute - National Eye Clinic

Conference 6632 continues page 27.

Conf. 6628 (DOS)

SESSION 1

Room B13 Wed. 09.00 to 10.00

Devices and Methods for Clinical Application I Chair: Ralf Brinkmann, Univ. zu Lübeck

(Germany)

09.00: A robust spectral sensor for point-of-care diagnostics, S. Schönfelder, H. S. Bartos, R. Peters, Boetringer, Proprieta Germany)

(Germany)

09.15: Spectroscopic imaging using acousto-optic tuneable filters, M. Boulfid, M. P. Whelan, European Cormission (Italy)

09.15: Whuman maxillary sinus monitoring using tunable diode laser spectroscopy, L. Persson, M. Andersson, T. Svensson, M. Cassal-Engquist, K. Svanberg, S. Svanberg, Lund Univ. (Swedon) (628-03)

09.45: Spatially-resolved in-vivo measurement system for estimating the optical properties of tissue in the wavelength range 1000-1700nm, P. Hismansson, S. N. Thennadil, Newcastle Univ. (United Kingdom)

Conf. 6629 (DOI) Co session 1

Wednesday 20 June • 09.00 to 10.00

Room 5 Wed. 09.00 to 10.00

New Technologies
Chair: Andreas H. Hielscher, Columbia Univ

(Germany)[6629-04] Coffee Break 10,00 to 10,30

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Conference 6629 continues page 28.

Conf. 6632 (TLA) SESSION 8 Joint Session with WLT-German Scientific Laser Society

Room 11 Wed. 09.00 to 10.00

Laser Catapulting

(Germany) [WLT-83] Vogel, N. Linz, V. Horneffer, Univ. zu Lübeck (Germany)[6632-34] Coffee Break 10.00 to 10.30 (Germany); Karsten König, Fraunhofer-Institut 09.30: Principles of laser catapulting of live cells, A. (Germany); Y. Niyaz, P.A.L.M. Microlaser Technologies 09.00: Laser micromanipulation of cells and tissue 09.45: Laser microbeams as versatile tools for for GmbH (Germany); S. Soria-Lopez, Ludwig-Maximilians-Univ. München (Germany); K. Schütze, für Biomedizinische Technik (Germany) Chairs: Alfred Vogel, Univ. zu Lübeck stem cell purification and clonal expansion, A. (Invited Paper, Presentation Only), K. Schütze, Buchstaller, Ludwig-Maximilians-Univ. München P.A.L.M. Microlaser Technologies GmbH P.A.L.M. Microlaser Technologies GmbH Conference 6632 continues page 28.

bladder tissue for karyometric analysis, V. R. Korde, College of Opficial Sciences/The Univ. of Arizona (USA), H. G. Bartels, J. Ranger-Moore, J. K. Bartels, The Univ. of Arizona (USA) Room BO.R2 Wed. 09.00 to 11.00 Coffee Break 10.00 to 10.30 (Germany)[6633-28] laser pulses, J. Baumgart, Laser Zentrum Hannover et. V. (Germany); W. Bhitg, A. Ngezahayo, W. A. Ertmer, Unix. Hannover (Germany); H. Lubatschowski, A. Heisterkamp, Laser Zentrum Hannover e.V. Photonics Micromanipulation Tools II Chair: Hans-Peter Berlien, Elisabeth Klinik 09.00: Optical deformability as a new cell marker (Invited Paper), J. A. Käs, Univ. Leipzig 09.30; Live cell opto-perforation by femtosecond 09.45: Automatic segmentation of cell nuclei in **Engaging Life Processes: New** Conf. 6633 (BOLS) (Germany) Conference 6633 continues page 28. **SESSION 7** (Germany)

Wednesday 20 June • 10.30 to 12.30

Conf. 6628 (DOS)

..... Wed. 10.30 to 12.15

SESSION 2

FLIM and 2-Photon Excitation

Chair: Dietrich Schweitzer, Friedrich-Schiller-Univ. Jena (Germany)

wavelength- and time-resolved intracellular autofluorescence (Invited Paper), Y. Wu, W. Zheng, J. Y. Qu, Hong Kong Univ. of Science and Technology structures, D. Schweitzer, Friedrich-Schiller-Univ. Jena (Germany); S. Jentsch, Fachhochschule Jena (Germany); S. Scherke, C. U. Biskup, Friedrich-Schiller-Univ. Jena (Germany); E. R. Gaillard, Northern Blinois Univ. (USA); M. Hammer, Friedrich-Schiller-Univ. (Hong Kong China)[6628-05] 11.00: Spectral and time-resolved studies on ocular 10.30: Monitoring cellular metabolic pathways by Jena (Germany)

autofluorescence, W. Becker, V. Katsoulidou, A. Bergmann, Becker & Hickl GmbH (Germany) [6628-07] 11.15: Multi-spectral FLIM of tissue

A. Katsen-Globa, H. Zimmermann, JenLab GmbH (Germany), K. König, Fraunhofer-Institut für Biomedizinische Technik (Germany) (Germany); R. Bückle, S. Martin, F. Ehrhart, J. Baunach, lifetime studies on unstained cells and tissue at cryogenic conditions, M. Stark, D. Dörr, A. Ehlers, D. Sauer, Fraunhofer-Institut für Biomedizinische Technik 11.30: Multiphoton imaging and fluorescence

.....[6628-09] engineered constructs, M. Chandra, R. H. Wilson, W. temperature, S. Kawauchi, S. Sato, H. Ooigawa, H. Nawashiro, M. Kikuchi, National Defense Medical K. Vishwanath, K. Izumi, S. Feinberg, M. Mycek 11.45: Intrinsic optical signals of brains in rats during loss of tissue viability: effect of brain 12.00: Sensing metabolic activity in tissue College (Japan) 9

Conference 6628 continues page 29.

Univ. of Michigan (USA)[6628-10] Lunch/Exhibition Break 12.15 to 13.15

Conf. 6629 (DOI) **SESSION 2**

Room 5 Wed. 10.30 to 12.30

Chair: Hamid Dehghani, Univ. of Exeter (United Image Reconstruction

10.30: Evaluation of the image reconstruction Kingdom)

Okada, Keio Univ. (Japan)[6629-05] diffuse reflective optical tomography: simulation and a phantom study, K. Fukuda, Tokyo Metropolitan College of Industrial Technology (Japan); M. Fujii, Sophia Univ. (Japan)[6629-06] 11.00: Near-surface sensitivity suppression way for algorithm for near infrared topography by virtual head phantom (Invited Paper), H. Kawaguchi, E.

functional imaging by time-domain NIRS, D. Contini, L. Spinelli, A. Torricelli, A. Pifferi, R. Cubeddu, Politecnico di Milano (Italy) 11.15: Novel method for depth-resolved brain

molecular tomography by use of spectrally resolved fluorescence emission, J. Axelsson, J. Svensson, S. Andersson-Engels, Lunds Tekniska Högskola (Sweden) 11.30: Spatial a priori information in fluorescence [6629-08]

Nielsen, Philips Research Labs. (Germany) . [6629-09] diffuse optical tomography considering uncertainties in absorption spectra, B. Brendel, T. 11.45: Wavelength optimization in multispectral 12.00: Optimized determination of absorption

(Poland); H. Wabnitz, C. Elster, Physikalisch-Technische Bundesanstalt (Germany) topography: simulations and phantom experiments, distributions for a two-layer tissue model, A. Liebert Institute of Biocybernetics and Biomedical Engineering 12.15: Depth selective diffuse optical computed M. Fujii, A. Kawanaka, K. Nakayama, Sophia Univ. changes from moments of time-of-flight

Conference 6629 continues page 29

Lunch/Exhibition Break 12.30 to 13.30

Conf. 6632 (TLA)

SESSION 9

Joint Session with WLT -- German Scientific Laser Society

Room 11 Wed. 10.30 to 12.35

Focussed Laser Effects I

Chairs: Karsten König, Fraunhofer-Institut für Biomedizinische Technik (Germany); Alfred Vogel, Univ. zu Lübeck (Germany)

10.30: Simulation of ultrashort pulse induced optical breakdown plasmas generated at high numerical aperture focusing, C. L. Andolf, Laser Zentrun Hannover e. V. (Germany); W. A. Erlmer, Unix. Hannover (Germany); H. Lubatschowski, Laser Zentrum Hannover

10.45: Femtosecond laser-induced nanocavitation, N. Linz, S. Freidank, Uhn. zu Lübeck (Germany); G. Planz, Rat-Franzens-Univ. Graz (Austria), A. Vogel. Univ. zu Lübeck (Germany) e.V. (Germany)[6632-36]

femtosecond plasmas in bulk aqueous materials, A. Vogel, N. Linz, S. Freidank, Univ. zu Lübeck (Germany); G. Paltauf, Karl-Franzens-Univ. Graz (Austria)[6632-38] 11.00: Luminescent high-energy density

Hannover e.V. (Germany)[WLT-82] (Presentation Only), A. Heisterkamp, Laser Zentrum 11.45: Laser nanosurgery for stem cell research

manipulation of stem cells (Presentation Only), K. König, IBMT St. Ingbert (Germany) [WLT-77] 12.10: Femtosecond laser nanoprocessing for 12.10: Influence of laser parameters on

12.20: Effects of pulse duration and pulse energy on (USA)[WLT-199] femtosecond near-infrared opto-injection of living cells (Presentation Only), C. Peng, R. E. Palazzo, I. Wilke, Rensselaer Polytechnic Institute

Ivine (USA); K. R. Rau, Tata Institute of Fundamental Research (India); P. A. Quinto-Su, V. Venugopalan, Univ of California/Irvine (USA)[6632-39] Lunch/Exhibition Break 12.30 to 13.30 laser microbeam-induced cell lysis and membrane permeabilization, A. N. Hellman, Univ. of California/

Conference 6632 continues page 29.

Conf. 6633 (BOLS)

SESSION 7 Continued

10.30: Axial optical trapping and position detection through a dielectric interface for an arbitrary beam, A. A. R. Neves, A. Forties, L. C. Barbosa, Univ. Estadual de Campinas (Brazil); A. Camposeo, R. Cingolani, Univ Microelettronica e Microsistemi (Italy); C. L. Cesar, Univ Estadual de Campinas (Brazil)[6633-31] degli Studi di Lecce (Italy); D. Pisignano, Istituto per la

enhanced albumin solder, S. Bogni, A. Affieri, M. Reinert, M. A. Constantinescu, E. Knall, A. Bregy, M. Frenz, Univ. Bern (Switzerland)[6633-32] 10.45: Vascular end-to-side soldering using a dye-

SESSION 8

Room BO.R2 Wed. 11.00 to 12.30

From Lab to Bedside: Biomedical Optics in Clinical Routine I

Chair: Gert von Bally, Univ. Münster (Germany) Elisabeth Klinik (Germany)[6633-33] 1.00: Photodynamic therapy: state-of-the-art and further perspectives (Invited Paper), H. Berlien,

muttidimensional non-linear microscopy, R. Cicchi, S. Sestini, V. De Giorgi, D. Stambouli, P. Carli, D. Massi, F. S. Pavone, Univ. degli Studi di Firenze (Italy) [6633-34] 11.30: Skin cancer imaging and evaluation by

femtosecond laser pulses, L. Sacconi, Univ. degli Studi Diana, Istituto Superiore di Sanità (Italy); M. Buffelli, Univ. degli Studi di Verona (Italy); F. Keller, Univ. Campus Bio-Medico (Italy); F. S. Pavone, Univ. degli Studi di Firenze di Firenze (Italy); R. Panteri, Univ. Campus Bio-Medico (Italy); A. Masi, Univ. degli Studi di Firenze (Italy); G. 11.45: In vivo micro-lesion of single dendrite with (Italy)

engineering by two-photon microscopy, K. Liefeith, R. Schade, S. Grohmann, Institut fur Bioprozess- und 12.00; Online-visualization in cartilage tissue Fönsing, D. Anselmetti, Bielefeld Univ.

12.15: Raman spectroscopic investigations of cellula components in liquor cerebrospinalis, M. K. Harz, M. Kiehntopf, P. Roesch, E. Straube, T. Deufel, J. Popp, Analysenmesstechnik e.V. (Germany); J. Martini, K.

Friedrich-Schiller-Univ. Jena (Germany) [6633-37] Lunch/Exhibition Break 12.30 to 13.30

Conference 6633 continues page 29

Wednesday 20 June • 13.30 to 16.15

14.30: Depth-resolution by continuous-wave imaging, E. B. Aksel, A. Akin, Bogaziçi Univ. (Turkey)[6629-15]

14,45: CW and time domain procedures for accurate

multiple-scattering medium, L. Yu, National Yang-Ming Univ. (Taiwan); J. Wu, L. Su, National Central Univ. (Taiwan); C. Chen, Y. Chan, National Yang-Ming Univ. (Taiwan); C. Chou, National

inhomogeneity by diffuse photon-pairs density wave in a

14.15: Detection and characterization of an optical

(Germany)

Yang-Ming Univ. (Taiwan) and National Central Univ. (Taiwan)

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Joint Session with WLT - German Scientific Laser Society

Nanoparticle and Chromophore Assisted Cell Surgery

Chair: Gereon Hüttmann, Univ. zu Lübeck (Germany)

potential diagnostic applications (Invited Paper), P. Taroni, A. Giusto, A. Pifferi, Politecnico di Milano (Italy); N. S. Shah, Univ. of California/Invine (USA); L. Spinelli, A. Torricelli, R. Cubeddu,

13.30: Assessment of collagen absorption and related

Politecnico di Milano (Italy)[6629-12]

14.00: Influence of cell shape on the optical properties of

Chair: Jean-Michel Tualle, Ctr. National de la Recherche

Tissue Optical Properties Scientifique (France)

Conf. 6629 (DOI) **session 3**

human erythrocytes, M. C. Meirke, Charifé-Univ. Medizin Berlin (Germany); M. Friebel, Laser und Medizin-Technologie GmbH, Berlin (Germany); G. J. Müller, Charité-Univ. Medizin Berlin

.....[6629-13]

nanophotothermolysis with gold nanoparticles, V. Analysis (Belarus); A. S. Smetannikov, A.V. Luikov Heat and Mass Transfer Institute (Belarus); V. P. K. Pustovalov, Belarussian Institute of System 13.30: Mechanisms of selective

[6632-40] Zharov, Univ. of Arkansas for Medical Sciences 13.45: Selective protein knockout by laser-(USA)

Research Ctr. Borstel (Germany); G. Hüttmann, Univ zu Lübeck (Germany) [6632-41] induced heating of gold nanoparticles, M. Bever, Univ. zu Lübeck (Germany); R. Rahmanzadeh, 14.00: Cell and protein inactivation with optical absorbers (Invited Paper), R. Rahmanzadeh, J. Gerdes, T. Scholzen, Research Ctr. Borstel (Germany); G. Hüttmann, Univ. zu Lübeck

(Germany) [6632-43] 14.30: Laser-activated nanoparticle-directed cell elimination (Invited Paper), F. Levold, A. Limmer, Univ. Bonn (Germany); G. Hüttmann, Univ. zu Lübeck (Germany); E. Endl, Univ. Bonn (Germany)

15.00: Progress in gene transfection by the use of laser-induced stress wave, S. Sato, National Obara, Keio Univ. (Japan) [6632-44] Defense Medical College (Japan); M. Terakawa, M.

15.00: Determination of the optical properties of turbid media

calibration of optical properties of liquid diffusive media at NIR wavelengths. F. Mardili, Univ. degli Studi di Firenze (Italy); L. Spinelli, A. Farrina, A. Pifferi, A. Torricelli, R. Cubeddu. Politecnico di Milano (Italy); G. Zaccanti, Univ. degli Studi di Firenze (Italy)[6629-16] by measurement of the spatially and spectrally resolved reflectance, M. Pilz, A. Kienle, Univ. Ulm (Germany) . [6629-17]

15.15. Light attenuation through turbid slabs calculated by solutions of the Maxwell equations, J. Schäfer, A. Kienle, F. K. Messtechnik (Germany); A. Strey, Univ. Ulm (Germany)[6629-18]

Forster, Institut für Lasertechnologien in der Medizin und

15.15: Towards a selective photochemical

inactivation of the progesterone receptor, W. S. L. Strauss, Univ. Ulm (Germany); K. Raunegger, C. Hoedl, E. Haslinger, Karl-Franzens-Univ. Graz [6632-45] (Austria); R. W. Steiner, Univ. Ulm (Germany); H. W. 15.30: Efficacy of a single high dose versus multiple low doses of IIIt on wounded skin Schramm, Karl-Franzens-Univ. Graz (Austria)

fibroblasts, D. H. Hawkins, H. Abrahamse, Univ. of Johannesburg (South Africa) [6632-46] Goksör, Göteborg Univ. (Sweden) [WLT-85] Coffee Break 16.00 to 16.30 15.45: Lab-on-a-chip: The future of single cell analysis? (Presentation Only), E. Eriksson, M. Conference 6632 continues page 30.

Conf. 6633 (BOLS) session 9

Room BO.R2 Wed. 13.30 to 15.00

From Lab to Bedside: Biomedical Chair: Gert von Bally, Univ. Münster Optics in Clinical Routine II

Reichelt, Albert-Ludwigs-Univ. Freiburg (Germany); P. and Üniv. Freibu (Germany); A. Werber, H. Zappe, Albert-Ludwigs-Univ. Freiburg (Germany); K. Förster, R. Klemm, C. Heilmann, F. Beyersdorf, Univ. Hospital Freiburg (Germany)[6633-38] continuous vital parameter monitoring, J. Fiala, S. Bingger, Albert-Ludwigs-Univ. Freiburg (Germany) 13.30: Miniaturized pulse oximeter sensor for (Germany)

H. T. Kasprzak, Z. M. Kulas, Politechnika Wroclawska after eye blink and the eye drying, D. H. Szczesna, 14.00: Characterization of reperfusion dynamics 13.45: Examination of in vivo tear film stability (Poland); U. Stenevi, Sahlgren's Univ. Hospital (Sweden)

Univ. of California/Davis (USA) and Lawrence Livernore National Lab. (USA); C. Troppmann, Univ. of California/Davis Medical Ctr. (USA); S. G. Demos. Lawrence Livermore National Lab. (USA) and Univ. of California/Davis (USA) [6633-40] using tissue autofluorescence, R. N. Raman, Univ. following long-term renal ischemia in a rat model of California/Davis (USA); C. D. Pivetti, Univ. of California/Davis Medical Ctr. (USA); D. L. Matthews, 14.15: In vivo study of contrasting properties of

V. A. Kamensky, Institute of Applied Physics (Russia); M. Y. Kirillin, Oulun Yliopisto (Finland); I. V. Balalaeva, ... [6633-41 tomography, E. V. Zagaynova, Nizhny Novgorod State Medical Academy (Russia); M. V. Shirmanova, 14.30: Optical sensor based system to monitor caries activity in children, A. Shrestha, R. Tahir, A. Nizhny Novgorod State Univ. (Russia); A. G. Orlova, gold nanoparticles for optical coherence Nizhny Novgorod State Univ. (Russia)

......[6633-43] (Singapore) [6633-42] 14.45: Advanced non invasive light activated therapy for root canal disinfection, A. Kishen, S. George, National Univ. of Singapore Kishen, National Univ. of Singapore (Singapore)

Conference 6633 continues page 30

Conference 6629 continues page 30. Coffee Break

Conference 6628 continues page 31

asertechnologien in der Medizin und Messtechnik (Germany); A.

Bassi, D. Comelli, P. Taroni, A. Pifferi, Politecnico di Milano

biological media using isotropic and anisotropic diffusion models, A. Kienle, Univ. Ulm (Germany); C. Wetzel, Institut für

camera, D. Ettori, K. Zarychta, E. Tinet, S. Avrillier, J. Tualle, Ctr. National de la Recherche Scientifique (France) [6629-20] 16.00: Determination of the optical properties of anisotropic

[6629-19]

15.45: Time-resolved measurement of the scattered light

with an interferometric method based on the use of a

concentration measurement using the skull cranial window by multi-spectral imaging analysis, K. Sakaguchi, S. Furukawa, Keio Univ. (Japan); T. Katsura, K. Yamazaki, H. Kawaguchi, A. Maki, Hitachi, Ltd. (Japan); E. Okada, Keio Univ.

15.30: Path-length correction for the haemoglobin-

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Wednesday 20 June • 16.30 to 18.30

Conf. 6629 (DOI)

SESSION 4

Room 5 Wed. 16.30 to 18.00

Muscle and Vascular Imaging

Chair: Henricus J. C. M. Sterenborg, Erasmus Univ. Medical Ctr. (Netherlands)

16.30: Imaging of metabolic and vascular reactivity in joints with dynamic optical tomography (Imvited Paper), A. H. Heischer, J. M. Lasker, C. J. Fong, E. Dwyer, Columbia Univ. (USA)[6629-22] 17.00: Non-invasive, depth-selective recovery of fluorescence signals from the adult human head by fluorescence signals from the adult of floorescence signals from the adult of floorescent signals from the adult of floorescence si

17.30: Assessment of muscle vascular disease with diffuse light, G. Yu, T. Durduran, C. Zhou, G. Lech, R. Choe, E. R. Mohler, A. G. Yodh, Univ. of Pennsylvania (USA)

17.45: fDOT imaging of vascular autoregulation in healthy and TBI subjects, H. L. Graber, SUN/N Downstate Medicial Ctr. (USA) and NIRX Medicial Technologies, LLC (USA); M. Farber, D. Streedharan, SUN/Y Downstate Medical Ctr. (USA); Y. Pei, NIRX Medicial Technologies, LLC (USA); Y. Ev., SUNY, Downstate Medical Ctr. (USA); Y. Pei, NIRX Medical Technologies, LLC (USA); C. H. Schmitz, NIRX Medical Technologies, LLC (USA); C. H. Schmitz, NIRX Medical Technologies, LLC (USA); G. H. Schmitz, NIRX Medical Technologies, LLC (USA); G. T. Voelbel, G. R. Wylle, J. Langenfelder, J. DeLuca, Kessler Medical Rehabilitation Research and Education Corp. (USA); R. L. Barbour, SUNY/Downstate Medical Ctr. (USA) and NIRX Medical Technologies, LLC (USA) [6629-27]

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Joint Session with WLT – German Scientific Laser Society

SESSION 11

Room 11 Wed. 16.30 to 18.30

Focussed Laser Effects II

Chairs: Karsten König, Fraunhofer-Institut für Biomedizinische Technik (Germany); Alfred Vogel, Univ. zu Lübeck (Germany)

16.30: Laser-mediated perforation of plant cells, M. M. Wehner, Fraunhofer-Institut für Lasertechnik (Germany); H. Schnikel, Fraunhofer Institut Molekularbiologie und Angewanate Oekologie (Germany); P. Schnikoer, Fraunhofer-Institut für Lasertechnik (Germany); S. Schillberg, Fraunhofer Institut Molekularbiologie und Angewanate Oekologie (Germany); S. Schillberg, Fraunhofer Institut Molekularbiologie und Angewanate Oekologie (Germany); S. Schillberg, Fraunhofer Sphilt M. S. Optical knocking out of single cells in tumor spheroids (Presentation Only), A. A. Uchugonova, Fraunhofer-Institut für Biomedizinische Technik M. T. 7781

Sprainting In Teaching Management of Teaching Sprainting In Teaching (Germany)

17.00: Dosimetry in cellular pottoperforation by realtime monitoring of bubble formation, N. Linz, V. Horneffer, S. Freidank, A. Vogel, Univ. zu Lübeck (Germany)

17.15: Cost-effective generation of nano- and microeffects in cells and tissues by ns laser pulses, A. Vogel, N. Linz, S. Freidank, Univ. zu Lübeck (Germany); G. Patkarf, Karl-Franzens-Univ. Graz (Abustha)

16.30: 30-Laser assisted processing of biocompatible polymers for biomedical applications on the cellular level (Presentation Only), M. Stark, IBMT St. Ingbert (Germany); (Germany) (Germany).

Closing Remarks 17.15 to 17.30

End of Conference

17.00: Biosensing with T-ray spectroscopy, B. M.

Fischer, D. Abbott, The Univ. of Adelaide

(Australia)

Conf. 6633 (BOLS) session 10

Room BO.R2 Wed. 15.00 to 17.30

Biophotonics in Environmental and Security Research

Chair: J**ürgen Popp**, Friedrich-Schiller-Univ. Jena (Germany)

H. Meyer, T. May, V. Zakosarenko, S. Anders, Institut für Physikalische Hochtechnologie e.V. (Germany); G. measurements in a segmented microfluidic system, K. R. Strehle, D. Cialla, Friedrich-Schiller-Univ. Jena (Germany); T. Henkel, G. Mayer, Institut für microorganisms by means of Raman spectroscopy, (Germany)[6633-45] (Germany)[6633-46] Coffee Break 16.00 to 16.30 Friedrich-Schiller-Univ. Jena (Germany); J. Popp, Friedrich-Schiller-Univ. Jena (Germany) and Institut für Thorwirth, Jena-Optronik GmbH (Germany); E. Kreysa, 15.00: Optical sensors in water monitoring (Invited N. Jethava, Max-Planck-Institut für Radioastronomie 16.30: A passive terahertz camera (Invited Paper) 15.45: A reproducible surface-enhanced Raman Popp, Friedrich-Schiller-Univ Jena (Germany) and Institut für Physikalische Hochtechnologie e.V. P. Roesch, M. K. Harz, M. Krause, U. Neugebauer, Physikalische Hochtechnologie e.V. (Germany); J. 15.30: Fast and reliable identification of spectroscopy approach: online SERS Paper), G. Gauglitz, Univ. Tübingen Physikalische Hochtechnologie e. V.

Thursday 21 June • 09.00 to 10.00

Conf. 6628 (DOS) SESSION 4

Room 11 Thurs. 09.15 to 10.00

Devices and Methods for Clinical Application II

Chairs: Junle Qu, Shenzhen Univ. (China); Rall Brinkmann, Univ. zu Lübeck (Germany)

09.30: **Polarization optical spectroscopy: the technique for puncture diagnosis**, V. A. Kamensky, N. M. Shakhova, P. D. Agrba, A. Mjakov, Institute of Belarusian State Univ. (Belarus); G. Schweiger, Ruhr Univ. Bochum (Germany) [6628-23] Applied Physics (Russia)[6628-22] Coffee Break 10.00 to 10.30 KG (Germany); M. Frentzen, Univ. Bonn (Germany); M. Thoms, Dürr Dental GmbH & Co. KG (Germany) and Univ. of Erlangen (Germany)[6628-21] noninvasive monitoring of blood and human tissue parameters, V. A. Saetchnikov, E. A. Tcherniavskaia, fluorescence, J. Eberhart, Dürr Dental GmbH & Co. 09.45: Combined fiber optical-thermal sensor for through diffuse scattering and metabolic 09.15: New method to detect caries via

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Room 5 Thurs. 08.30 to 10.00

SESSION 5

Brain Imaging

Chairs: Eiji Okada, Keio Univ. (Japan); Rainer Macdonald, Physikalisch-Technische Bundesanstalt (Germany)

Univ. (Japan)[6629-28] the infant auditory cortex using perturbation Monte Univ. of Technology (Finland) and Univ. of Helsinki (Finland), P. E. Gratt, Massachusetts General Hospital (USA) and Consultant (USA); I. T. Nissitä, Massachusetts General Hospital (USA) [6629-29] 08,45: Optical tomographic imaging of activation of Consultant (Finland) and Univ. of Helsinki (Finland); K. 08.30: Modeling of influence of frontal sinus on NIRS signal of brain activation, D. Yamamoto, Kelo Carlo with anatomical a priori information, J. K. Heiskala, Helsinki Univ. of Technology (Finland) and M. Kotilahti, L. T. Lipiäinen, P. J. Hiltunen, Helsinki

09.00: Cerebral oxygenation monitoring during cardiac bypass surgery in infants with broad band spatially resolved spectroscopy, J. Soschiniski, Univ. Univ. of Applied Sciences Koblenz (Germany)[6629-30] Univ. zu Köln (Germany); D. Geraskin, Üniv. of Applied Sciences Koblenz (Germany); U. Mehlhorn, G. 09.15: Comparison of various methods to enhance Wabnitz, Physikalisch-Technische Bundesanstalt (Germany); A. Liebert, Institute of Biocybernetics and depth selectivity in time-domain brain imaging, H. of Applied Sciences Koblenz (Germany); U. Fischer, Bennink, Univ. zu Köln (Germany); M. Kohl-Bareis, Biomedical Engineering (Poland); D. Contini, L.

Conference 6628 continues this page.

photodiodes, Y. Bérubé-Lauzière, V. Robichaud, É. Lapointe, Univ. de Sherbrooke (Canada) . . . [6629-32] Konstanz (Germany)[6629-33] Coffee Break 10.00 to 10.30 human brain measured by time-resolved diffusing-09.45: Transient tissue dynamics in the stimulated 09.30: Time-resolved non-contact diffuse optical tomography measurements with ultra-fast timewave spectroscopy, T. Gisler, J. Li, F. Jaillon, G. Dietsche, T. Elbert, B. Rockstroh, G. Maret, Univ. correlated single photon counting avalanche

Conf. 6628 (DOS)

Room 11 Thurs. 10.30 to 12.15 **SESSION 5**

Drugs and Analysis of Cells and Body Chair: Georges A. Wagnières, École Polytechnique Fédérale de Lausanne Liquids

(Switzerland)

London (United Kingdom); I. J. Bigio, Boston Univ. (USA); S. G. Bown, Univ. College London (United photosensitising drug concentrations for photodynamic therapy, M. R. Austwick, J. Woodhams, C. Elliot-Laize, V. Chalau, A. J. MacRobert, Univ. College 10.45: Study of antiangiogenic drugs by fluorescence 10.30: Optical pharmacokinetics measurement of

for the direct and indirect immunodiagnostic analysis methods, R. Mannila, VTT Optical Instruments (Finland); T. Pulli, H. K. Saari, K. Tappura, VTT Information Farmacologiche Mario Negri (Italy) [6628-57] 11.00: Fluorescence based fast diagnostics platform imaging and spectroscopy of a contrast agent in mice, G. Valentini, C. D'Andrea, R. Ferrari, A. Pifferi, R. Cubeddu, Politecnico di Milano (Italy); D. Caronia, M. Martinelli, R. Giavazzi, Istituto di Ricerche

lymphoma, lymphoid, and myeloid leukemia cell lines, J. Babrah, R. Lush, A. Rye, K. McCarthy, Gloucestershire Gloucestershire Hospitals NHS Foundation Trust (United Hospitals NHS Foundation Trust (United Kingdom); C. Bessant, Cranfield Univ. (United Kingdom); N. Stone, 11.15: FT-infrared spectroscopic studies of

Spinelli, A. Torricelli, Politecnico di Milano

(Italy)

Technology (Finland); J. Tuppurainen, I. Vikholm-Lundin, H. Valimaki, VTT Elektroniikka (Finland); A. Niskanen, Ani Biotech Oy (Finland)

Shenyang Ligong Univ. (China)[6628-31] Kushibiki, K. Awazu, Osaka Univ. (Japan) ... [6628-29] (Ukraine)[6628-30] 12.00: Spectral analysis of esophagus cancer using protein-containing surfactant nematic cells, M. M. fluorescence and Raman spectroscopy, D. Wang, 11,30: Analysis of tissue specific progenitor cell differentiation using FT-IR, K. Ishii, A. Kimura, T. 11,45: Alignment techniques for preparation of Omelchenko, Institute of Physical Optics

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Conf. 6629 (DOI) SESSION 6

Thursday 21 June • 10.00 to 12.30

Room 5 Thurs. 10.30 to 12.30

Chair: Simon R. Arridge, Univ. College London Fluorescence Imaging (United Kingdom)

Robichaud, Univ. de Sherbrooke (Canada) [6629-34] 11.00: Double labeling optical fluorescence tomography 10.30: Time-of-flight non-contact fluorescence diffuse optical tomography with numerical constant fraction discrimination (Invited Paper), Y. Bérubé-Lauzière, V.

for rodents using a multiwavelength scheme, R. Bourayou, Charife-Univ Medicine Berlin (Germanny), J. M. Steinbrink, Charife-Univ. Medizin Berlin (Germany): J. Klohs, R. Cordell, P. Bahmani, A. Wunder, U. Lindauer, Charife-Univ. (Germany); A. Villringer, U. Dirnagl, Charité-Univ. Medicine Berlin (Germany) [6629-35] Medicine Berlin (Germany); F. Lehmann, Dyomics GmbH 11,15: 360° free space fluorescence molecular

tomography using silhouette surface reconstruction, T. R. Lasser, Murich Univ. or Technology (Germany); N. Deliolanis, A. Soubret, Massachussetts General Hospital (USA); U. Ripoll, Foundation for Research and Technology (Greece); V. (USA)[6629-36] different types of fluorescent labels, A. Da Silva, T. Bordy, M. Debourdeau, J. Dinten, P. Peltie, P. Rizo, Lab. (France)[6629-37] 11.30: Whole body in vivo examination of small animals by simultaneous X-Rays/optical tomography: comparison between the reconstructions obtained with Ntziachristos, Massachussetts General Hospital d'Electronique de Technologie de l'Information

mammograph, A. J. Hagen, O. Steinkellner, D. Grosenick, Physikalisch-Technische Bundesanstalt (Germany); M. tomography in heterogeneous media, S. Fortier, F. Leblond, ART Advanced Research Technologies Inc. 12.00: Multi-channel time-domain fluorescence (Canada)

11.45: Time-domain fluorescence diffuse optical

(Germany), R. Macdonald, H. H. Rinneberg, Physikalisch-Technische Bundesanstalt (Germany) [6629-39] Research Labs. (Germany); K. Lauritsen, PicoQuant GmbH Möller, Hochschule fur Technik und Wirtschaft des Saarlandes (Germany); R. Ziegler, T. Nielsen, Philips

12.15: Time-resolved imaging of fluorescence inclusions Biomedical Engineering (Poland)[6629-40] in optically turbid medium, M. Kacprzak, P. L. Sawosz, A. Liebert, R. Maniewski, Institute of Biocybernetics and

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Thursday 21 June • 13.30 to 19.00

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SESSION 6

Room 14C Thurs. 13.30 to 15.45

Radiative Transfer and Modelling

Chairs: Karsten König, Fraunhofer-Institut für Stark, Fraunhofer-Institut für Biomedizinische Biomedizinische Technik (Germany); Martin Technik (Germany)

(France) [6628-32] 13.45: Semi-analytical method for rapid calculation of time-resolved reflectance from bi-layered tissue models, R. H. Wilson, K. Vishwanath, M. Mycek, Univ. of Michigan (USA) [6628-33] 14.00: Computational analysis of light scattering from functions: a finite element approach, V. M. Piron, J. L'Huillier, École Nationale Supérieure d'Arts et Métiers collagen fiber networks, D. Arifler, Eastern Mediterranean Univ. (Cyprus); I. Pavlova, The Univ. of Texas/Austin (USA); A. Gillenwater, The Univ. of Texas 13.30: Object localization within turbid slab media using time-resolved transillumination contrast

■ End of Conference

M.D. Anderson Cancer Ctr. (USA); R. R. Richards-Kortum, Rice Univ. (USA)

Amouroux, Ctr. de Recherche en Automatique de Nancy (France) and Ctr. Advisi Valutrin (CAN) (France); G. Diaz Ayil, E. Pery, W. W. Blondel, F. H. Guillemin, Ctr. de Recherche en Automatique de Nancy (France) [6628-35] 14.15: An in vitro study on skin cancer phantoms to detect depth and thickness variations at several test diffuse reflectance spectroscopy's ability to collecting to excitation fiber separations, M.

Ystamnes, PhotoSense AS (Norway); K. H. Stamnes, Stamnes, L. Akslen, L. Rustad, Helse Bergen Haukeland Univ. Hospital (Norway) 14.30: Physiological spectroscopic imaging for diagnosis of skin cancer, K. P. Nielsen, A. Bhandari, B. Hamre, L. Zhao, PhotoSense AS (Norway); G. A. Ryzhikov, M. S. Biryulina, Geminali AS (Norway); J. J.

14.45: Improvements in Alzheimer's disease diagnosis kinetics of bilirubin and hemoglobin in bruises, B. Stam, J. de Wit, Univ. van Amsterdam (Netherlands); L. L. combination with Raman spectroscopy, J. K. J. Archer, C. D. Sudworth, The Univ. of Liverpool (United Kingdom); D. M. Mann, Univ. of Manchester (United Kingdom); R. A. 15.00: Reflection spectroscopy for assessment of the Randeberg, Norwegian Univ. of Science and Technology (Norway); M. C. G. Aalders, Univ. van Amsterdam using principle components analysis (PCA) in

reflectance spectroscopy, A. V. Ľappa, K. V. Dmitriev, Chelyabinsk State Univ. (Russia) . [6628-39] in single gold nanoparticle dimers, M. Ringler, T. A. Klar, A. Schwemer, J. Stehr, Ludwig-Maximilians-Univ. München (Germany); A. Nichtl, K. Kürzinger, Roche (Germany)[6628-40] Coffee Break16.00 to 16.30 15,30: Surface-enhanced Raman scattering (SERS) Diagnostics GmbH (Germany); G. Raschke, Ludwig-Maximilians-Univ. München (Germany); R. T. Phillips, Univ. of Cambridge (United Kingdom); J. Feldmann, Ludwig-Maximilians-Univ. München determination of absolute concentration of 15.15: Mathematical model and method for admixtures in turbid media using diffuse

Conf. 6629 (DOI) **SESSION 7**

Room 14C Thurs, 16,30 to 19.00

Chair: Brian W. Pogue, Dartmouth College Breast Imaging

l'Information (France)[6629-41] Peltié, P. Rizo, Lab. d'Electronique de Technologie de development in mice lungs (Invited Paper), A. Koenig, L. Hervé, A. Da Silva, J. Dinten, J. Boutet, M. Berger, Lab. d'Electronique de Technologie de l'Information (France); V. Josserand, ANIMAGE (France); J. Coll, Institut Albert Bonniot (France); P. 16.30: fDOT for in vivo follow-up of tumor

cancer tumors: pilot studies, B. W. Pogue, Dartmouth College (USA)[6629-42] 17.15: The twente photoacoustic mammoscope 17.00: MRI-guided NIR spectroscopy of breast

and therapy monitoring using diffuse optical methods, R. Choe, S. D. Konecky, A. Corlu, K. Lee, C. Zhou, T. Durduran, M. A. Rosen, M. D. Schnall, B. J. Czerniecki, J. C. Tchou, B. Chance, A. G. Yodh, Univ. of (PAM): first clinical results, S. Manohar, S. Vaarljes, J. v. Hespen, J. Klaase, F. v. d. Engh, W. Steenbergen, T. G. van Leeuwen, Univ. Twente (Netherlands) [6629-43] 17.30: Breast cancer detection, characterization,

measurement of cerebral blood flow at the intensive Pennsylvania (USA)[6629-44] care unit, T. Durduran, C. Zhou, B. Eldow, R. Choe, G. Yu, S. Kasner, B. Cucchiara, J. H. Greenberg, J. A. 17.45: Diffuse correlation/wave spectroscopy for Detre, A. G. Yodh, Univ. of Pennsylvania

End of Conference

.....[6629-45] node metastases in breast cancer using elastic scattering spectroscopy scanning, M. R. Austwick, W. D. Chicken, S. Somasundaram, B. R. Clark, A. 18.00: Rapid intraoperative diagnosis of sentinel

Mosse, M. Falzon, G. Kocjan, Univ. College London (United Kingdom); I. J. Bigio, Boston Univ. (USA); S. G. Bown, M. Keshtgar, Univ. College London (United head and neck cancers with diffuse optical spectroscopies, U. Sunar, Univ. of California/San Diego (USA); S. Kim, R. Choe, H. Poptani, H. Quon, T. Durduran, C. Zhou, G. Yu, S. Nioka, B. Chance, A. G. Yodh, Univ. of Pennsylvania (USA) (USA)(6629-47) Univ. General Hospital of Herakleion (Greece); J. Ripoll, assessed by diffuse optical spectroscopies, U. Surar, Univ. Of California'San Dego (USA), S. Makonnen, C. Zhou, H. Wang, G. Yu, T. Durduran, W. M. F. Lee, A. G. Yodh, Univ. of Pennsylvania Foundation for Research and Technology-Hellas (Greece); A. Papadakis, Univ. Hospital of Heraklion (Greece); F. Zacharopoulou, Univ. General Hospital of 18.30: Radiotherapy dosimetry assessment with Herakleion (Greece); A. Garofalakis, Foundation for Research and Technology-Hellas (Greece); T. Maris, 18.45: Early prediction of treatment response of 18.15: Monitoring hemodynamic responses to Foundation for Research and Technology-Hellas optical projection tomography, G. Zacharakis, antivascular therapy and ionizing radiation (Greece)

Chebotarevsky, Yury V. [6628-66]SP

Chateau, Nicolas [6627-45]S9

Chen, Chien-Hung [6629-52]SP,

Aalders, Maurice C. G. [6626-12]S3,

Abdulhalim, Ibrahim S. [6627-58]SP, Abbott, Derek [6633-48]S10 [6631-50]SP

Achilefu, Samuel 6626 ProgComm Ackermann, Alexander [6632-05]S1 Abrahamse, Heidi [6632-46]S10 Adler, Desmond C. [6627-01]S1, Abramovich, Gil [6631-47]SP

Adlerstein, Daniel [6626-24]SP Aguirre, Aaron D. [6627-27]S6 Akiba, Masahiro [6627-39]S8, Agrba, Pavel D. [6628-22]S4 Ahn, MyoungKi [6630-36]SP Aizawa, Katsuo [6628-63]SP Aide, Alain [6631-27]S5 [6627-09]S2

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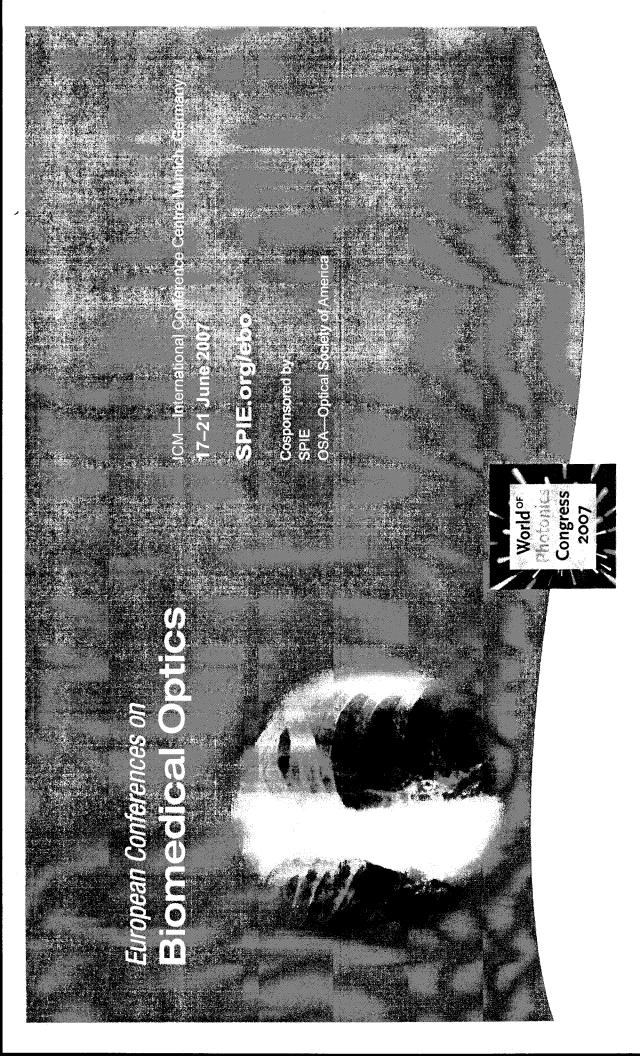
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