

17th AUGUST 2016**XXV. International Conference on Raman Spectroscopy // ICORS**

Fortaleza, Brazil // "Fábrica de Negócios" Conference Center, Praia Centro Hotel

DIAGNOSIS, MONITORING AND THERAPY**New Approaches and Governance Mechanisms
for Science and Technology Cooperation**

German-Brazilian Workshop on Photonic Health Technologies

Photonic technologies have demonstrated in recent years their enormous potential to provide **sustainable solutions to pressing problems in health care e.g. the field of infectious disease diagnostics, cancer treatment etc.** Providing adequate health care for the world population requires enormous efforts. These challenges can best be met through breakthroughs in and by deployment of **Biophotonic technologies**, yielding new cost-effective methods for improved diagnosis and therapy.

Brazil and Germany have a long and successful track record of bilateral cooperation, particularly in the field of Science and Technology. The "Action plan of the German-Brazilian Strategic Partnership" highlights the Science and Technology Cooperation (STC) as an important pillar of the relationship between the countries. It is time to take a step ahead in this process and **strengthen the cooperation in innovation.** Identifying the opportunities and challenges for investing and funding innovation in EU and Brazil is the starting point of that step.

It is therefore our great pleasure to invite you to a joint workshop along **ICORS 2016**, providing a dedicated platform for knowledge and experience sharing in photonic research and development for global health care.

This high level discussion will gather several key research and innovation organizations from Brazil and Germany and is organized in the context of the launching of **"phoSaúde – German-Brazilian cooperation on photonic health technologies"**.

German House for Research and Innovation – São Paulo
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SPECIAL FEATURES OF THE WORKSHOP

- To utilize latest advancements in science and technology to augment treatment and diagnostic capabilities in health care
- To identify complementary research strengths and facilitate the use of synergies in future research projects
- To exchange ideas and expertise internationally, with the objective of exploring the possibility of more substantial future collaboration
- To offer networking opportunities and to promote global mobility of researchers as key for understanding of foreign science culture
- Identifying opportunities for funding innovation in EU and Brazil

The workshop is mainly addressed to **scientists, health tech manufacturers and designers, academic and non-academic hospitals, clinical engineers, regulatory institutions and decision makers**, but is open to anyone interested in photonic systems for life sciences applications.

Participation is free of charge for participants of the ICORS 2016. Please select the German-Brazilian workshop on "Photonic Health Technologies" from the event list.

External guests could buy a day pass for 75 Euro. In order to do so, please create a user account on <https://www.conftool.com/icors2016/register.php>. By registering as participant you can select the "Single Day Ticket" for German – Brazilian Workshop on "Photonic Health Technologies" within the Participant Status Information list.

PRELIMINARY PROGRAM**WEDNESDAY, 17th AUGUST 2016**

14:00 – 14:05	Welcome Note of the Brazilian Representative e.g. Antonio Gomes Souza Filho // Universidade Federal do Ceará, Fortaleza
14:05 – 14:10	Welcome Note of the German Representative Prof. Jürgen Popp // Scientific Director of Leibniz Institute of Photonic Technology, Jena
14:10 – 14:15	Welcome note of the German House of Science and Innovation, São Paulo (DWIH-SP) Mr. Marcio Weichert // Coordinator German House for Research and Innovation, São Paulo
14:15 – 14:30	On-Site Photonic Detection of Infections Prof. Jürgen Popp // Leibniz Institute of Photonic Technology, Jena
14:30 – 14:45	Real Time In Vivo Applications of Raman Spectroscopy Prof. Airton A. Martin // Universidade do Vale do Paraíba
14:45 – 15:00	Surface-Enhanced Raman Scattering for Biodiagnostics Prof. Janina Kneipp // Humboldt University of Berlin
15:00 – 15:15	Raman Spectroscopy for Oral Pathology – From Ex Vivo, In Vitro and In Vivo Analysis – a 10 Years of Evolution Dr. Luis Felipe das Chagas e Silva de Carvalho // Laboratory of Biomedical Vibrational Spectroscopy Universidade do Vale do Paraíba (UNIVAP)
15:15 – 15:30	Differential Cancer Diagnostics by Label-Free FTIR Imaging of Tissue Prof. Klaus Gerwert // Ruhr University Bochum
15:30 – 15:50	Coffee Break
15:50 – 16:05	Photonic Tools for Neglected Diseases Diagnostics Prof. Anderson S. L. Gomes // Universidade Federal of Pernambuco, Recife
16:05 – 16:20	Innovative Diode Lasers – Addressing the Challenges of in Situ Raman Investigations Dr. Martin Maiwald, Dr. Bernd Sumpf // Ferdinand-Braun-Institut, Berlin
16:20 – 16:35	Laser-Tissue Interaction Providing Disease Diagnosis and Therapy Prof. Denise M. Zezell // Center for Lasers and Applications, Cidade Universitária, São Paulo
16:35 – 16:50	Integrated Multimodal Photonic Platform for Spectroscopy, Microscopy and Micromanipulations Prof. Carlos Lenz Cesar // Federal University of Ceará
16:50 – 17:30	Outreach to Public and Industry Innovations Technological in Raman Spectroscopy Applied in Biophotonics – In Vivo Raman Confocal for Cosmetic and Medical Igor Cavalho // João Lucas (HORIBA) Raman and Correlative Imaging Techniques for Biomedical Research Elina Bailo // WITEC
17:30 – 18:00	Innovation Horizons for the European Union and Brazil – Opportunities for Research Funding Gabi Hamm // Leibniz Institute of Photonic Technology, Jena, Dr. Kathrin Winkler // Director German Research Foundation, Office Latin America
18:00 – 18:20	Closing Remarks and Signing of Memorandum of Understanding "PhoSaúde – German-Brazilian Cooperation Network on Photonic Health Technologies"
18:20 – 19:30	Poster Session + Networking Drinks

Symposium Chairs:

Prof. Dr. Jürgen Popp // Leibniz Institute of Photonic Technology, Jena, Germany and Institute of Physical Chemistry & Abbe Center of Photonics Friedrich-Schiller University Jena, Germany, **Prof. Dr. Airton Martin** // University of Vale do Paraíba, Brazil