
Optical Imaging, Therapeutics, and Advanced Technology in Head and Neck Surgery and Otolaryngology 2019

This conference has an open **call for papers**:

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Important Dates

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Abstract Due:
25 July 2018

Author Notification:
1 October 2018

Manuscript Due Date:
11 January 2019

Conference Committee

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Conference Chairs

[Brian J. F. Wong](#), Beckman Laser Institute and Medical Clinic (United States)

[Justus F. Illgner](#), Uniklinik RWTH Aachen (Germany)

Program Committee

[Milind Rajadhyaksha](#), Memorial Sloan-Kettering Cancer Ctr. (United States)

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Call for Papers

Otolaryngology and head and neck surgery is a fertile field for applications of emerging technologies. Precise focused beams and advanced energy delivery systems provide the foundation for the development of innovative microsurgical techniques. Optical spectroscopic diagnostics, including elastic scattering, differential path-length, fluorescence and infrared spectroscopy, enhance tissue differentiation and identification. Interferometric and stroboscopic optical techniques such as OCT (optical coherence tomography) can be used to monitor motion of the vocal folds and/or of the tympanic membrane. Diagnostic systems increasingly interact with robotic and/or master-slave devices to allow for high precision cutting and ablation. Progress in OCT technology and other areas is facilitated successfully by interactions among clinicians, scientists, engineers, and researchers.

This conference covers the use of lasers and optical technology in otolaryngology and head and neck surgery, and provides an informative and crucial face-to-face interaction between the basic scientist and the clinician: a win-win scenario.

Papers from clinicians, scientists, engineers, and manufacturers are solicited in the following medical subspecialty areas:

- imaging of the vocal cords and airway
- cochlear imaging
- femtosecond laser surgery applications
- CO₂ laser ablation
- middle ear surgery/Stapes surgery
- endoscopic cancer resection
- RF surgical applications
- plasma-mediated ablation
- robotic and master / slave systems
- optical diagnostic techniques
- laryngology and speech science
- translational research.

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