



INTERNATIONAL FEDERATION FOR MEDICAL AND BIOLOGICAL ENGINEERING

Affiliated with the International Union for Physical and Engineering Sciences in Medicine

Office of the Secretary-General: **Prof. K.P. Lin**

Nominations for Elections in 2018

NOMINEE INFORMATION FORM

Nomination for the position of

Regional representative

Name

Tomas Jansson

Affiliated Society

Svensk Förening för Medicinsk Teknik och Fysik (MTF)

Current Position
(in Affiliated Society)

None

Current Profession
(in Academia, Hospital, etc.)

Associate Professor in Biomedical Engineering at Lund University and
Skåne University Hospital

Photograph (please use the space provided below only)





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Brief Biography (200 words)

I am an Associate Professor in Biomedical Engineering at Lund University, with a combined position at the Clinical Engineering Department at the Skåne University Hospital, in Lund, Sweden. I earned my PhD at Lund University in 1999 and has covered pre- and postdoc positions at both the University of Rochester NY, USA, and Linköping University in Sweden. My research career has been devoted to the development of novel diagnostic and therapeutic methods for medical ultrasound. Currently I head a project where we use superparamagnetic iron oxide nanoparticles as a contrast agent for ultrasound, opening avenues for ultrasound as a modality for the developing field of molecular imaging. I have 42 published papers in peer-reviewed journals, and a number of conference contributions. I have until 2016 been assistant program director for the in 2011 established engineering programme in Biomedical Engineering at Lund University. I am also director of the center Medicon Bridge, a joint center between Lund University and the health care provider in Southern Sweden (Region Skåne). The purpose is to initiate, promote and coach interdisciplinary medtech projects that can increase patient value. The center is also a node in the national strategic innovation programme for Biomedical engineering, Medtech4health.

Position Statement (200 words)

All current trends point in the direction that medicine, physics and engineering are more and more integrated. However, engineers are not well integrated into the health care system, lacking possibilities for certification in the same way as other health care professionals. In the interest of patient safety and the more integrated role technology plays in today's health care, I would like to promote the role of the engineer in the health care system. One way is through certification, ultimately internationally harmonized, being one of the key avenues I would like to promote. Moreover, technological development and innovation requires a close connection between the health care system and academia, especially engineering sciences, and industry. Also, these are bonds I would like to strengthen and where I believe an international society may be a key to establish a sustainable cultural change.



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I agree to have my name placed in nomination for the above position, and if elected, to serve for the three or six-year term specified.

Signature of Candidate: _____

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