



Dear colleagues,  
We are pleased to announce the

### 3<sup>rd</sup> INTERNATIONAL WORKSHOP

# SPINE LOADING AND DEFORMATION

4-6 July 2019

Julius Wolff Institute  
Charité – Universitätsmedizin Berlin

After successful meetings in [July 2015](#) and [May 2017](#), the organizing team, H. Schmidt, A. Shirazi-Adl, and I. Kingma, are planning another sequel as the **3<sup>rd</sup> International Workshop on Spine Loading and Deformation** that will, once again, be held at the Julius Wolff Institute, Charité – Universitätsmedizin Berlin on **July 4-6, 2019**.

It has increasingly become evident that the key to further success in providing the most effective personalized care for patients suffering from spinal disorders lies in intensified cross communications and collaborations across disciplines; in other words as elegantly phrased by late Alf Nachemson, by inter-discipline migrations. The coming workshop aims to bring together researchers active in different disciplines and fields of application in health care, biological sciences, biomechanics, and ergonomics to share, discuss, and re-examine the potentials of their recent studies on the spine. The research topics should cover trunk loads, postures and motions (imaging, sensors, and video camera), tissue mechanical tolerance, biological responses to mechanical load, failure and pain generation, measurements and model studies in sports, occupational and daily living tasks, with a focus on the lumbar and thoracic regions of spine. In addition, a Special Issue on the same topic in the Journal of Biomechanics has been planned (see: [J Biomech 49 \(6\) \(2016\)](#) and [J Biomech 70 \(2018\)](#)). The Special Issue aims to present up-to-date progresses in spine biomechanics using state-of-the-art, existing and novel measurement and computational techniques.

#### **Abstract submission:**

You are kindly invited to submit a **one-page abstract with up to 300 words** (including introduction, methods, results, and discussion) with an optional additional page containing up to 2 figures or tables before **January 15, 2019**. The abstract should be submitted in MS WORD format via email to [ws2019@spine-biomechanics.com](mailto:ws2019@spine-biomechanics.com). It should also include all authors (speaker underlined) and affiliations. Using a format similar to the following example would help us preparing the abstract book.

## Standing in the Coffee Breaks Increases Low Back Pain Dramatically

Schmidt H<sup>a</sup>, Kingma I<sup>b</sup>, Shirazi-Adl A<sup>c</sup>

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Abstract text ...

With maximum 300 words plus an optional additional page containing up to 2 figures or tables

Moreover, it should describe in sufficient details the objectives, methodology and results/discussion. Upon acceptance by an evaluation committee by **February 15, 2019**, each speaker (with only one presentation per speaker) is expected to prepare for a **15 minutes** oral presentation (excluding question period/discussion) of the work presented in the abstract.

### **Manuscript submission:**

Following acceptance of an abstract, the invited speaker is requested also to prepare an original manuscript of the research work presented in the abstract and submit it as a full-length (or short communication) research paper directly via EES to the Journal of Biomechanics (flagged as a Berlin Workshop paper) as soon as possible but not later than **July 31, 2019**. The accepted manuscripts, after regular stringent journal peer-review process, will be published once again in a special issue of the Journal of Biomechanics dedicated to this workshop.

### **Workshop fees:**

(Including: Participation in the workshop, coffee breaks, lunches, workshop dinner)

#### **For participants without oral presentation:**

- Members of universities and hospitals: 300 €
- Others: 500 €

#### **For participants with an oral presentation (invited speakers with an accepted abstract):**

No workshop fee and free hotel room

- for 2 nights including breakfast (July 4-6) for speakers from Europe
- for 3 nights including breakfast (July 3-6) for speakers from outside Europe

If necessary, we may organize an additional night until July 7.

**The number of participants is limited to 100. More details about the meeting program and registration will follow after abstract evaluation.**

We hope to see you again in Berlin next year!

**Hendrik Schmidt, Saeed Shirazi-Adl, Idsart Kingma**

### **Organizing Team:**

#### **Hendrik Schmidt**

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#### **Saeed A. Shirazi-Adl**

Department of Mechanical Engineering  
Polytechnique, Montréal, Canada

#### **Idsart Kingma**

Department of Human Movement Sciences  
Vrije Universiteit Amsterdam, The Netherlands

**Coordinator: Friedmar Graichen**



Join us at

**3<sup>rd</sup> International Workshop on Spine Loading and Deformation**  
Berlin (Germany), **July 4-6, 2019**

Location: **Julius Wolff Institute, Föhrer Str. 15, 13353 Berlin**

[ws2019@spine-biomechanics.com](mailto:ws2019@spine-biomechanics.com)