

## Registration

Please register online at:

[www.cismst.de/future3](http://www.cismst.de/future3)

The registration fee will be 200 € (participation for both days) and 100 € (participation for one day) (including VAT). All correspondence concerning the workshop should be addressed to:

## Workshop Office

Uta Neuhaus

CiS e.V.

Konrad-Zuse-Str. 14, 99099 Erfurt, Germany

Phone: +49 361 663 1160

Fax: +49 361 663 1413

E-Mail: [veranstaltung@cismst.de](mailto:veranstaltung@cismst.de)  
[www.cismst.de](http://www.cismst.de)

Please transfer the registration fee to the following bank account:

CiS e.V.

Name of bank: Sparkasse Mittelthüringen  
IBAN: DE37 8205 1000 0130 1134 25  
BIC: HELADEF1WEM  
Subject: FuTuRe III Workshop

## Recommended Hotels:

Due to the tourist attraction of the Erfurt Christmas market, please book an overnight stay in good time.

### Mercure Hotel Erfurt Altstadt

Meienbergstraße 26-27, 99084 Erfurt  
<http://www.mercure.com/en/hotel-5375-mercure-hotel-erfurt-altstadt/room.shtml>

### Radisson Blu Erfurt

Juri-Gagarin-Ring 127, 99084 Erfurt  
<http://www.radisson-erfurt.de/en/>

### Ibis Erfurt Altstadt Hotel

Barfuesserstrasse 9, 99084 Erfurt  
<http://www.accorhotels.com/gb/hotel-1648-ibis-erfurt-altstadt/index.shtml>

## Travel Information

CiS Forschungsinstitut für Mikrosensorik GmbH  
Konrad-Zuse-Str. 14, 99099 Erfurt, Germany

You arrive in Erfurt ...

...by **plane** via Frankfurt or Berlin

...by **car** via Autobahn A4, exit "Erfurt Ost"

...by **train** to Erfurt main station and then **city tram** (Number 3, direction "Urbicher Kreuz", exit at the stop "Windischholzhausen /X-Fab") to the conference site.



The workshop will take place at the institute's conference room located on the 3rd floor.

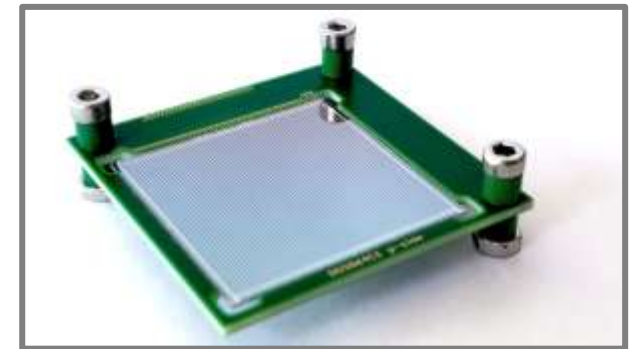


## Workshop on the Future of Silicon Detector Technologies

5<sup>th</sup> Anniversary

# FuTuRe

December 2<sup>nd</sup> to 3<sup>rd</sup>, 2019  
Erfurt, Germany



The workshop is organized by  
CiS e.V.



## About this Workshop

While the technical progress in science, industry and everyday life is speeding up, there is a constant need in improving sensors in terms of higher sensitivity, higher reliability and better dynamics.

One type of sensor which could keep pace to the requirements of innovation for the last decades is the silicon diode based sensor. The silicon diode has established itself in many fields of applications.

In our workshop important fields will be addressed during our four interesting sessions:

### Dosimetry in radiation therapy

There is a strong need for developing new kinds of detectors for both traditional radiotherapy and particle radiation therapy that enable the precise localization of the dose.

### Readout electronics

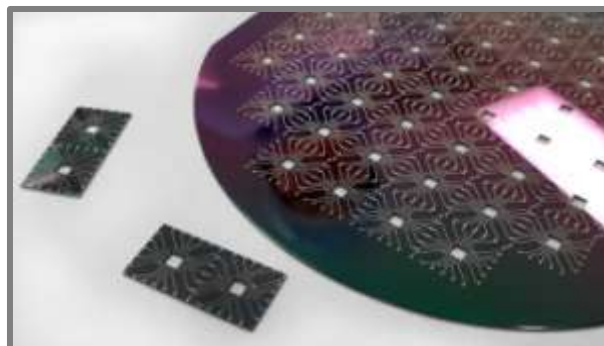
Sensors have to transfer signals to electronics. Current trends in electronics and highlights of modern sensor technology will be discussed.

### Sensor development for x-rays

New insights into health, materials, environmental and other sciences this can only be done when sensors and detectors are produced and optimised in respect of lateral, time and energy resolution and high dynamics. It has to be discussed how this can be achieved on wafer, assembly and electronics level.

### Defect engineering

The greatest challenges in defect engineering occur mainly in those sensors and detectors that are exposed to intense high energy radiation.



## Abstract Submission

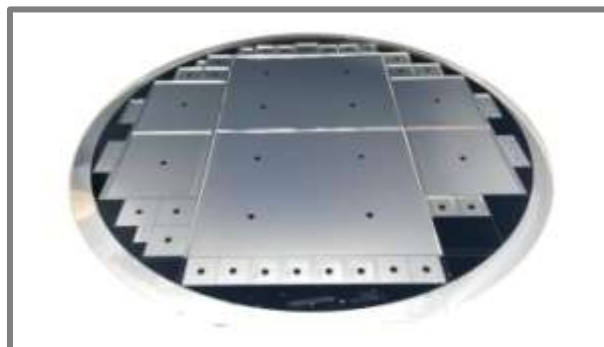
We invite you to participate with an oral presentation.

**Deadline for submission: November 4<sup>th</sup>, 2019**

Please send your Abstracts only as PDF by E-Mail to

Uta Neuhaus

[veranstaltung@cismst.de](mailto:veranstaltung@cismst.de)



## General Agenda

### December 1<sup>st</sup> (Sunday), evening

Welcome city tour and Christmas market.

### December 2<sup>nd</sup> (Monday)

#### Session I: Dosimetry in radiation therapy

with lectures by

- Prof. Dr.-Ing. Wolfgang Krautschneider, TU Hamburg
- Dr. Guntram Pausch, Helmholtz-Zentrum Dresden-Rossendorf
- Rafael Kranzer, PTW Freiburg
- Dipl.-Ing. Johannes Schilz, Strahlenschutzseminar in Thüringen e.V.

#### Session II: Readout electronics

with lectures by

- Prof. Nobuyuki Yoshikawa, Yokohama National University
- MA Yoshi, Yokohama National University

### December 3<sup>rd</sup> (Tuesday)

#### Session III: Sensor development for x-rays

with lectures by

- Dr. Bernd Schmitt, Paul Scherrer Institut
- Dr. Dominic Greiffenberg, Paul Scherrer Institut

#### Session IV: Defect engineering

with lectures by

- Prof. Erich Runge, Technische Universität Ilmenau
- Ioana Pintilie, National Institute of Materials Physics, Bucharest-Magurele
- Michael Moll, CERN, Genf

More speakers will be confirmed soon.