Registration

Please register online at: 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
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

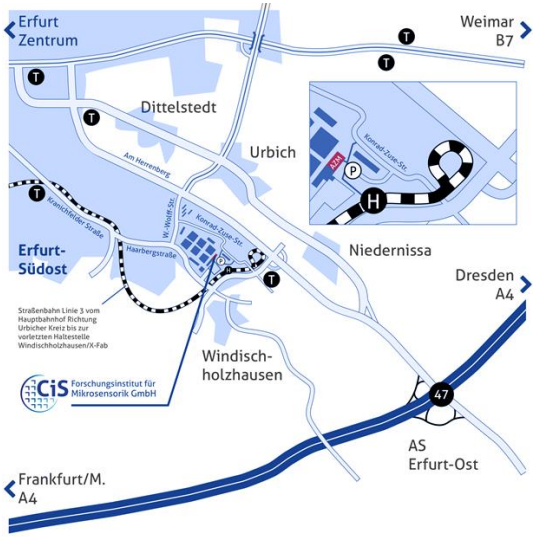
Barfuesserstrasse 9, 99084 Erfurt
http://www.accorhotels.com/gb/hotel-1648-ibis-erfurt-altstadt/index.shtml

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.

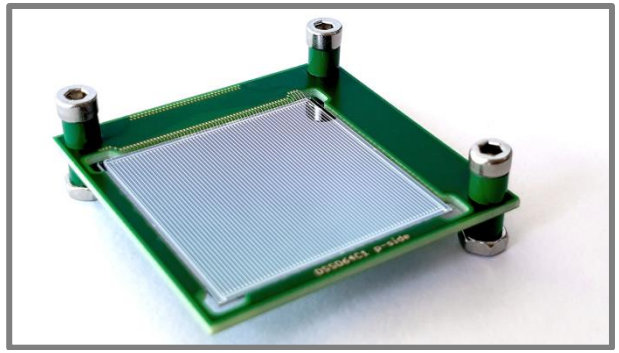


Workshop on the Future of Silicon Detector Technologies

5th Anniversary

FuTuRe

December 2nd to 3rd, 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.

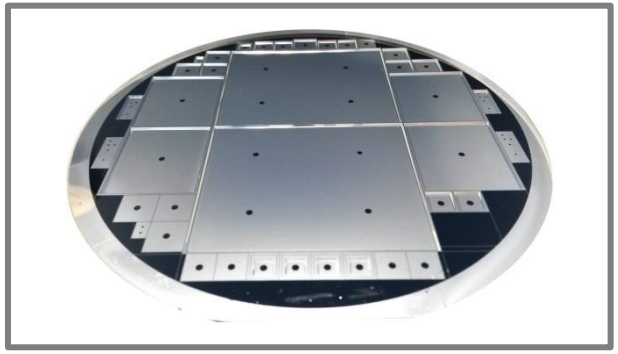
In our workshop important fields will be addressed during our four interesting sessions:

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

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.

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.



General Agenda

December 1st (Sunday), evening

18:30 Welcome city tour and Christmas market.

December 2nd (Monday)

08:30 Registration & Networking
09:00 Prof. Thomas Ortlepp: **Welcome address**

Introduction of SiDE Business Unit of CiS
09:10 **Ralf Röder**, CiS Forschungsinstitut

Session I: Readout electronics
09:40 **Prof. Nobuyuki Yoshikawa**, Yokohama National University
10:10 **MA Yoshi Hironaka**, Yokohama National University

10:40 Coffee Break
11:15 **Alexander Schmid**, Karlsruhe Institut für Technologie
11:45 **Prof. Thomas Ortlepp**, CiS Forschungsinstitut

12:15 Lunch

Session II: Dosimetry in radiation therapy
13:30 **Dipl.-Ing. Johannes Schilz**, Strahlenschutzseminar in Thüringen e.V.
14:00 **Rafael Kranzer**, PTW Freiburg

Session II: Dosimetry in radiation therapy
14:30 **Stephanie Schade**, Technische Hochschule Mittelhessen

15:00 Coffee Break
15:30 **Prof. Dr.-Ing. Wolfgang Krautschneider**, TU Hamburg
16:00 **Dr. Andreas Wagner**, HZDR Nuclear Physics Division

19:00 Dinner at Villa Haage

December 3rd (Tuesday)

08:30 Registration & Networking

Session III: Sensor development for x-rays
09:00 **Dr. Bernd Schmitt**, Paul Scherrer Institut
09:30 **Dr. Jiaguo Zhang**, Paul Scherrer Institut

10:00 Coffee Break
10:30 **Jonathan Correa**, DESY, Hamburg
11:00 **Tobias Wittig**, CiS Forschungsinstitut
11:30 Discussion

12:00 Lunch

Session IV: Defect engineering
13:00 **Prof. Erich Runge**, TU Ilmenau
13:30 **Michael Moll**, CERN, Genf
14:00 **Teimuraz Mchedlidze**, TU Dresden

14:30 Coffee Break
15:00 **Daniela Seifert**, X-FAB Semiconductor Foundries GmbH
15:30 **Kevin Lauer**, CiS Forschungsinstitut

16:00 Discussion

16:30 End of the workshop