

2<sup>nd</sup> announcement

<http://www.uhasselt.be/sbdd>



# Hasselt Diamond Workshop 2024

## SBDD XXVIII



**February 28 – March 1, 2024**  
**cultuurcentrum Hasselt (Cultural Centre), Hasselt, Belgium**

*This year, the SBDD XXVIII programme is **focussed on diamond surfaces and interfaces** while also covering annually returning topics. This comprises the growth of high quality diamond material, including, doping, physics of colour centres and their properties, chemistry and physics of diamond surfaces, etc. Furthermore, use of these properties in quantum devices, high-power electronics, biomedical and bio-sensing applications, magnetic resonance, and many more will be discussed. Traditionally, SBDD XXVIII is aiming at providing a forum where fundamental as well as application driven viewpoints can be discussed at the highest level.*

*The 28<sup>th</sup> edition of SBDD is looking forward to provide a forum where fundamental and application driven viewpoints can be discussed on the highest level.*

## Note

SBDD XXIV will cover three **full** days, **starting on Wednesday morning** (~ 8.30 AM) and ending **Friday afternoon** (~ 4 PM). Through the yearly rotation of the Chair, each edition gets a clear signature programme based on the Chair's field of expertise. The **SBDD XXVIII** programme will cover annually returning topics with *special emphasis on diamond surfaces and interfaces*. Traditionally, **SBDD XXVIII** is looking forward to provide a forum where fundamental and application driven viewpoints can be discussed on the highest level.

### Abstracts on the following topics are encouraged

- High purity CVD diamond growth
- Diamond doping and colour centres
- Defect spectroscopy and transport
- Nanodiamond particles, characterisation and applications
- Diamond electronic devices
- Quantum sensing and related technologies, theory aspects
- Diamond electrochemistry and biosensing devices
- High energy radiation and particle detectors
- Diamond surfaces and nanostructures
- And many others ...

**Abstracts** must be submitted electronically [here](#) and must follow the **template** available at that link.

The confirmation of **acceptance** of the abstract will be sent before **January 24, 2024**, together with the type of presentation, i.e. oral or poster.

The **deadline** for submission of abstracts is **January 10, 2024**. Late abstracts will only be considered for posters.

## Invited Speakers

**Shery L.Y. Chang**, *University of New South Wales, Australia*

Correlative fluorescence and transmission electron microscopy revealing shape dependent fluorescence brightness in FND

**Lilian Hughes**, *University of California, Santa Barbara, U.S.A.*

Creating controlled NV systems in (001) and (111) diamond for quantum technologies

**Satoshi Koizumi**, *National Institute for Materials Science (NIMS), Japan*

Formation of n-channel diamond MOSFET and related CVD technologies

**Renbao Liu**, *The Chinese University of Hong Kong, Hong Kong*

Sensing critical magnetism using nitrogen-vacancy centers in diamond

**Mohamadali Malakoutian**, *Stanford University, U.S.A.*

Diamond thermal impact on the technology development beyond Moore's law

**Fazhan Shi**, *University of Science and Technology of China, China*

*On diamond quantum sensing*

**Evan Thomas**, *Leibniz Universität Hannover, Germany*

Polycrystalline diamond micro-hotplates

More speakers will be added in the near future. Please check our [website](#) regularly

## Venue

SBDD XXVIII will take place at its traditional venue in the centre of Hasselt. The cultuurcentrum Hasselt is situated in the centre of Hasselt, just outside the ring road, and can be easily reached on foot.

cultuurcentrum Hasselt, Kunstlaan 5, B-3500 Hasselt, Belgium



## Hotel

A number of rooms are pre-booked at a special rate in the [Express by Holiday Inn](#) hotel in Hasselt. The price for a single/double room will be €91, per room, per night, breakfast included, plus additional €2.5 city tax per night, per person. To book a room, **please, only use this link:** [Hasselt Diamond Workshop 2024 - SBDD XXVIII](#).

The special rate is valid for stays from Monday, February 26, to Saturday, March 2, 2024.

### Express by Holiday Inn

**Address:** Thonissenlaan 37, B-3500 Hasselt

**Tel:** +32 (0) 11 24 22 00

**Fax:** +32 (0) 11 22 39 35

**E-mail:** [info@hihasselt.com](mailto:info@hihasselt.com)



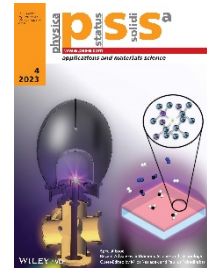
The fax and telephone number, and email address given above will lead you to the joint reservation desk of the [Holiday Inn](#) and [Express by Holiday Inn](#), hotels which are both situated in Hasselt. In case of problems, we kindly ask to use these contact details.

In case of direct contact with the reservation desk, do not forget to mention your participation to "**Hasselt Diamond Workshop 2024 – SBDD XXVIII**" in order to reserve one of our pre-booked rooms in the Express by Holiday Inn and to ensure the special rate!

## Manuscripts

Each presenter is offered the opportunity to submit a manuscript, which will go through a normal double peer reviewing process. Traditionally, all accepted manuscripts will be published in a special issue of *physica status solidi (a)*. Oral as well as poster presenters are encouraged to submit. Submission should be done online using a dedicated website. The link will appear on the SBDD XXIV website. Do **not** send your manuscript to the Editorial Office of *physica status solidi*.

Please go to the SBDD XXIV website for manuscript preparation instructions and templates: <https://www.uhasselt.be/sbdd#anch-334-special-issue>.



## Registration details

### Conference fee "SBDD XXVIII"

€320

This fee includes welcome & poster receptions, coffee breaks, and lunch during the three days of the conference.

### Student conference fee "SBDD XXVIII"

€240

This fee includes welcome & poster receptions, coffee breaks, and lunch during the three days of the conference.

### Conference dinner (optional) "SBDD XXVIII"

€75

Thursday evening, February 29, 2024.

## Registration

Tuesday, February 27, 18:00 – 19:00: [Express by Holiday Inn](#)

Wednesday, February 28, 8:30: cultuurcentrum Hasselt

## Registration form

Please find the online registration form on the SBDD XXVII website: <https://www.uhasselt.be/sbdd>.

## Payment

Three different payment options are available:

- **Bank transfer:** the total amount (fee + optional conference dinner) must be paid to the under mentioned account **before March 1, 2024**.

Bank: KBC

Address: Brusselsesteenweg 100, B-3000 Leuven, België

IBAN: BE53 4532 5078 0153

BIC (= SWIFT): KREDBEBB

Account holder: Hasselt University, Martelarenlaan 42, B-3500 Hasselt, Belgium

Reference: **WOG/SBDD XXVIII – 2024/'name of participant(s)'**

- **Credit Card :** Credit card: the total amount must be paid at registration. An official SBDD receipt of payment will be provided upon request.
- **Invoice:** to request an (electronic) invoice, please mail send an e-mail to the [Conference Secretary](#) including the name(s) of the registrant(s), the total amount to be paid, the VAT number of your university/institute/company, the exact (email) address where to send it to, and any other details that need to be included on the invoice. If the invoice must be based on an order form, please make sure to provide this form **before February 21, 2024** by [email](#).
- **We cannot accept cash payment anymore! We apologise for the inconvenience this might cause.**

## Committees

### Organisation

**Ken Haenen** (Co-chair), Hasselt University & IMEC vzw, Belgium, E-mail: [ken.haenen@uhasselt.be](mailto:ken.haenen@uhasselt.be)

**Miloš Nesládek** (Co-chair), Hasselt University & IMEC vzw, Belgium, E-mail: [milos.nesladek@uhasselt.be](mailto:milos.nesladek@uhasselt.be)

**Nora Colson** (Conference Secretary), Hasselt University & IMEC vzw, Belgium, E-mail: [sbdd@uhasselt.be](mailto:sbdd@uhasselt.be)

**Jeroen Prooth** (Conference Vice-Secretary), Hasselt University & IMEC vzw, Belgium, E-mail: [sbdd@uhasselt.be](mailto:sbdd@uhasselt.be)

### Programme Board

**Jocelyn Achard**, *Université Sorbonne Paris Nord, France*

**Julien Barjon**, *Université de Versailles Saint-Quentin-en-Yvelines, France*

**Christoph Becher**, *Universität des Saarlandes, Germany*

**Philippe Bergonzo**, *Seki Diamond Systems, France*

**Chia-Liang Cheng**, *National Dong Hwa University, Taiwan*

**Ádám Gali**, *HAS-Wigner Research Centre for Physics, Hungary*

**Etienne Gheeraert**, *CNRS/Université Grenoble Alpes-Institut Néel, France*

**Richard B. Jackman**, *University College London, U.K.*

**Fedor Jelezko**, *Universität Ulm, Germany*

**Satoshi Koizumi**, *NIMS, Japan*

**Anke Krüger**, *Julius-Maximilians-Universität Würzburg, Germany*

**Quan Li**, *The Chinese University of Hong Kong, Hong Kong*

**Paul W. May**, *University of Bristol, U.K.*

**David A.J. Moran**, *University of Glasgow, U.K.*

**Mark E. Newton**, *University of Warwick, U.K.*

**Shannon S. Nicley**, *Michigan State University, U.S.A.*

**Julien Pernet**, *CNRS/Université Grenoble Alpes-Institut Néel, France*

**Bohuslav Rezek**, *CAS-Institute of Physics, Czech Republic*

**Jean-François Roch**, *École normale supérieure Paris-Saclay, France*

**Romana Schirhagl**, *Rijksuniversiteit Groningen, Netherlands*

**Matthias Schreck**, *Universität Augsburg, Germany*

**Michael Trupke**, *Universität Wien, Austria*

**Hitoshi Umezawa**, *AIST, Japan*

**Oliver A. Williams**, *Cardiff University, U.K.*

**Nianjun Yang**, *Hasselt University, Belgium*

## Deadlines

<b>January</b>	<b>10</b>	<b>2024</b>	<b>Deadline for uploading of abstracts</b>
January	24	2024	Confirmation of acceptance of abstracts
February	19	2024	Full programme and final announcement
February	21	2024	Registration deadline
March	31	2024	Deadline for receiving the manuscripts

Workshop sponsored by [Hasselt University](#) through the [Institute for Materials Research \(IMO\)](#), [IMOMEC](#).

