

Dear members and friends of the CRC 1461,

welcome to the CRC newsletter for summer 2024! Although, for now the newsletter will only be published twice a year, please continue to keep us updated with news you would like to see on the [news-section](#) of the homepage or here in the newsletter.

CRC 1461 Proposal and review process

The proposal of CRC 1461 was successfully finalized by all members of the CRC with great support by the writing group (special thanks goes to Sören Kaps and Victor Witte!) and submitted personally by Leonie to the DFG head office on July 10, 2024.

Subsequently, there is not much time to relax as the planning for the on-site review on Sep. 04 - 05, 2024 (including two prior rehearsals) quickly progresses. CRC members had their first big planning meeting on July 17. Detailed information regarding review and rehearsals is available in the [CLOUD](#).

Summer School 2024 and more news from the iRTG

This year, the iRTG had a joint **summer school** with the IRTG of CRC 1261 (Biomagnetic Sensing) from June 10 - 12 at the Seehotel Töpferhaus in Alt-Duvenstedt near Rendsburg. On the first day, the members of the two IRTGs got to know each other at a science speed dating event and put their practical engineering skills to the test at a paper aeroplane competition. On the second day Henrike Schmidt gave a workshop about presentation skills with a special focus on storytelling and personal interaction. Due to the weather, the planned

team building exercise in the afternoon had to be canceled. Nevertheless, a part of the group braved the weather and explored the Bistensee by canoe and SUP. On the third day we learned about "Bridging to industry: Navigating transitions for academics" in a workshop given by Anna Canning. Last but not least, Franz Faupel (PI C2) gave a very interesting and inspiring talk about ways out of the climate and sustainability crisis.



Science speed dating at the summer school 2024 of CRC 1261 and CRC 1461 (@Mona Stölting)

Thanks to the organizing team of the summer school, all speakers, the Töpferhaus team and all participants for a great summer school 2024!

(Text adapted from Mona Stölting, CRC 1261)

The new doctoral representatives in the **iRTG board** are Rafael Ashrizzadeh (B2), Roshani Madurawala (C2), Alena Nierhauve (for her second term, C4) and Dijana Pavleska (A4). They started in the board with their first meeting on June 27, 2024.

The following **ATMs** took place in February and March 2024 at CAU Kiel:

B1 (Maxi Noll) Relaxation-type oscillators on breadboard

B2 (Rafael Ashkrizzadeh) Lithography steps and thin film deposition

C1 (Rouven Lamprecht) Creating a memristor from scratch

C2/C6 (Pia Pooker, Roshani Madurawala) Dynamic wiring in chaotic systems

C4 (Ole Gronenberg) Electron microscopy for neuro-morphic devices: Preparation, analysis and evaluation

Many thanks to the organizers for their time and effort!

Gender Equality measures 2024 (Selection)

On Feb 02, 2024 the panel discussion on equal opportunities in career development "**Beyond the Glass Ceiling: Breaking Barriers and Building Equality**" took place at the Seeburg in Kiel. The event was jointly organized by KINSIS, CRC 1261 and CRC 1461. The panelists Karin Lochte (former director of AWI, Bremerhaven) and Ulrich Staphani (former director of the Department of Paediatrics and Adolescent Medicine, UKSH) represented the academic viewpoint, whereas Ina Schienagel (Product Performance Manager at Philips Medical Systems, Hamburg) and Goncalo Ferreira (Senior Director



"Beyond the Glass Ceiling: Breaking Barriers and Building Equality" - a panel discussion at the Seeburg in Kiel (@Julia Siekmann)

Manufacturing, Stryker Trauma) offered the industry’s perspective. The discussion was hosted by Franziska Nitsche. [HERE](#) you can read more about the event.

The first CRC women’s retreat for female early-career researchers took place on May 14-16, 2024 in Westerland, Sylt. Five doctoral researchers and one early-career PI, recently appointed professor, got together to participate in the workshop “Think strategically, learn from mistakes – goal achievement with boxing for women in science” ([Strategisches Boxcoaching™](#)). The workshop offered a unique combination of goal reflection, boxing, and communication training.

Honors, Awards and Publication Highlights

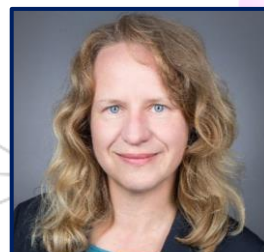
The student bodies of the Department of Electrical and Information Engineering (ET&IT) and the Department of Materials Science (MAT) bestowed their teaching awards. The CRC is happy to announce that both first places were assigned to CRC members: Martina Gerken (ET&IT) and Sören Kaps (MAT) received their certificates during the official summer celebration of the Faculty of Engineering at CAU Kiel on July 04.



Sören Kaps receives the teaching award for the best lecture in materials science (@Janina Rathje Fotografie)

Members of the CRC

On July 03 CRC-PI **Martina Gerken** officially becomes the first female dean of the Faculty of Engineering at CAU Kiel.



The CRC congratulates the following doctoral researchers who graduated in the last weeks:



- Maik Ivo Terasa** (associated, C2), May 22: Embarking on a journey: exploring novel physical substrates for in-materia approaches to neuromorphic computing
- Sahitya Yarragolla** (associated, C5), June 20: Physics-inspired compact modeling of memristive devices: From fundamentals to applications (*summa cum laude*)
- Ole Gronenberg** (C4), July 11: Exploring complementary approaches in electron microscopy for neuromorphic devices (*summa cum laude*)
- Bakr Al Beattie** (B1), July 15: Analysis, design, and synthesis of unconventional computers based on memristive oscillator networks (*summa cum laude*)

Upcoming Events

- Aug. 04, 2024** **Deadline poster upload** for the rehearsal on Aug. 15!
- Aug. 15, 2024** Rehearsal at the Faculty of Engineering, CAU Kiel
- Aug. 15, 2024** Registration deadline for the course on FPGA Essentials (in collaboration with CRC 1261)

Aug. 16, 2024 Abstract submission deadline for the “Symposium Neuromorphic, Unconventional and Physical Computing” in New Zealand

Aug. 22, 2024 CRC Colloquium with Duygu Kuzum, University of California (title tba)

Sep. 02, 2024 Dress Rehearsal at the Faculty of Engineering, CAU Kiel

Sep. 04-05, 2024 On-site review of the CRC 1461 (CAU Kiel)

Oct. 8 - 10 ATM at IHP (B5) (prior knowledge of circuit design preferred; registration will follow)

Oct. 14, 2024 Talk: Parenthood and science – motherhood penalty, fatherhood bonus and other obstacles to compatibility

Nov. 05-08, 2024 Course on FPGA Essentials (in collaboration with CRC 1261)

Nov. 20-21, 2024 Fall retreat

Nov. 22 Funding decision by DFG expected

Last, but not least...

We would like to thank all CRC members for their huge effort und support during this time of proposal writing and preparations for the on-site review!

Cheers, Sonja, Leonie and Hermann

CRC 1461 - Publication Performance	
Journal papers (peer-reviewed)	112
Conference papers (peer-reviewed)	27
Books 😊	1
Total	140