Bavarian HPC Everywhere You Are
Meet us digitally at SC20
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LRZ-Extra-Newsletter to SC20, November 11., 2020

WELCOME TO THE SC20

DIVE INTO AND DISCUSS IN LRZ's VIRTUAL ROOMS

LISTENING, LEARNING, SHARING KNOW-HOW

PARTNER & PROGRAMME

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WELCOME TO THE SC20

The corona pandemic is also forcing the world's largest supercomputing fair into the virtual space. The advantage: This offers more interested people the chance to get to know and visit SC20. There is an admission fee for the congress and lecture program, the exhibition program can be visited free of charge. In addition, **registrations** are possible until 7 December 2020. After that, lectures and the virtual exhibition can be viewed at leisure until at least the end of the year, in some cases even until May 2021.

The Leibniz Supercomputing Centre has set up its well-known and **popular beergarden** in the Mozilla Hubs for networking and discussion. From next week on, HPC enthusiasts and specialists will meet here to exchange ideas and solutions. Okay, everyone has to bring their own beer and pretzels. And due to the time zones in the USA and Europe, the visit is more of an afternoon or even evening event: Starting at 12 p.m. according to Eastern Standard Time or 6 p.m. according to European time, the visit will start on November 17 and 18. The LRZ informs about the exact schedule and all activities on its **Extra-SC website.**
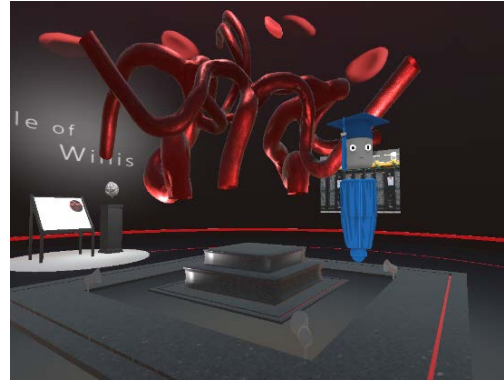
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DIVE INTO AND DISCUSS IN LRZ's VIRTUAL ROOMS

Besides the beer garden the LRZ presents its own services, strategies and research projects in different virtual rooms. Meeting point is the **LRZ Lobby,** from here you can go to the different theme rooms and presentations:

- The LRZ introduces itself and its services, describes the possibilities that scientists find at the **SuperMUC-NG** and presents the **BEAST program** to the public for the first time. The Bavarian Energy, Architecture- and Software-Testbed is a new playground for computer scientists at LRZ and has the clear mission to evaluate the next generation of supercomputers and test innovate technologies. Login and storage servers are already available in Garching, as well as two AMD-Rome (EPYC 7002 series) systems and servers with Marvell ThunderX2 processors. Both are equipped with graphics processors as accelerators. Recently a Cray CS500 system was installed, which works with Fujitsu A64FX processors. And much more is still to come in 2021.

- How digital twins are advancing medicine and drug research can be explored in the Virtual Human room. There the well-known project **CompBioMed** is presented, and reference is also made to further **research work on the corona virus**, for which SuperMUC-NG also calculated this summer.

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LISTENING, LEARNING, SHARING KNOW-HOW

Already on Monday, November 9, the congress and lecture program of SC20 started. The LRZ is also represented here with various lectures and workshops:

- Together with colleagues, supercomputing specialist David Brayford from the LRZ will explain what is behind the term OpenHPC and how HPC works in the cloud in the four-hour tutorial **"Practical OpenHPC"** on November 10 from 10 a.m. (EST). The team will also present practical methods, tools and databases for using open applications and code.

- On November 11, starting at 12 noon (EST), Laura Schulz will discuss strategies for making female specialists more visible within the HPC community and how their ideas for the computing of the future can be implemented. The topic of the lecture is: **"Always Celebrate Your Achievements:** A Strategic Approach to Advancing Yourself, Your Career, Your Colleagues and Your Organization".

- Representing the research data management team of the LRZ, Mohamad Hayek and Rubén Garcia-Hernandez will present on November 19, starting at 8:30 a.m. (EST), how scientists can use research data regardless of where it is stored: **"Using the LEXIS Cloud/HPC Platform"** is the title of the lecture in which Hayek and Garcia-Hernandez, together with colleagues from the EU research project LEXIS, describe the technical requirements of the new LEXIS platform and then demonstrate its **first successful application.** How the orchestration of complex simulation and data analysis workflows works in different Cloud and HPC environments was successfully tested with data on climate and forest fires in Italy.

- As usual, the renowned Gordon Bell Prize for HPC simulations will be awarded at the end of the SC20, on November 19 from 3 pm (EST). Also, this year the former LRZ director Professor Arndt Bode is part of the **Prize Committee** and judges the quality of the nominations.

More about the contributions of LRZ employees and partners can be found online at **https://sc20.lrz.de/home** and of course on the LRZ-Channels at **Twitter** und **Linkedin.**

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PARTNER & PROGRAMME

Still not enough of the SC20?Our partners, **Gauss Centre for Supercomputing (GCS)** and the **Gauß Allianz,** have put together further program items that are of interest to the HPC community in Germany and Europe. You will found more recommendations for interesting events and showcases at **PRACE.**

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• The LRZ Newsletter is published in German and English. You can find the latest and former editions on the **LRZ-Website**.
• You have problems displaying the newsletter? Please send a short description of your problem to< pr-team_AT_lrz.de>. Thank You!

• You can subscribe or unsubscribe the LRZ-Newsletter via our **website**.
• Current information about the LRZ and about courses and events can also be found on **Twitter** and **LinkedIn.**

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