

IYSC

PRESS

DAILY REPORT ABOUT THE INTERNATIONAL YOUTH
SCIENCE CONGRESS

BREMER WEIHNACHTS- MARKT

Many of the delegations and teachers followed the chair's advice in visiting the Bremer Christmas market.



THE WORK CONTINUES...

As yesterday was mainly about the research teams getting to know each other and their topics, today was about serious progress furthering their final presentation due on Thursday. During the day the groups would eventually get to meet experts on their research topics in universities and have an opportunity to ask them questions or discuss essential aspects of their investigation. But meanwhile, further discussions ensued, Power-Points created and speeches written.

MEANWHILE WITH THE TEACHERS

OUTFIT OF THE DAY



While the students broadened their scientific knowledge, the teachers broadened their cultural knowledge by part-taking in a guided tour of the city of Bremen. The tour showed Bremen's most important

sights, including the cathedral and the "Schnoor - Viertel".



Expert Consultations

ICT
Blockchain
technology



INSTITUTE OF PROJECT MANAGEMENT AND INNOVATION, UNIVERSITY BREMEN MR. NILS DENTER



After running around the University of Bremen's campus for about 10 minutes, asking multiple students for directions, the ICT group, under the watch of Ms. Sarah Kadiu and co-Chair Mr. Nicolai Ehlers Mikkelsen, finally found the building, in which they were supposed to be in. The delegates were greeted by the expert of ICT Mr. Nils Denner from the Institute of Project Management and Innovation at the University of Bremen. He began by giving a presentation about Blockchain Technology, and how it works, plus other important aspects, that the delegates then noted down. After the presentation, Mr. Denner handed out an article, which the delegates then had to read and answer some questions. After everyone was finished he then took the remaining time to go through the answers with the delegates, so that everything they had read was clear. He was then thanked by the delegates with a gift basket and they then headed back to school.

Space
Science
Extra-
terrestrial
resources



AIRBUS FACTORY VISITOR CENTRE MR. MICHAEL FICK

The group of Space science were treated to a special treat, when they were invited to the Airbus Space and Defence Centre in Bremen. The group met Mr. Michael Fick, an expert on extra-terrestrial resources at the factory and were given a tour through the factory over to the auditorium, wherein he subsequently gave a presentation about the main focuses and aims of Airbus Defence and Space. After the presentation he took the time to answer some of the delegates questions. Then he went on to explain what his role at Airbus is and what he does on a daily basis. Delegates where then given the chance to see

the production of the Orion ESM(European Space Module), the next spacecraft that will take humans to space. The tour continued with the presentation of one of the control rooms of the European space agency, which is not the main European space agency, but one that is occasionally used. Delegates then got the chance to go into a replica of the International Space station. There, delegates could walk through the space station and see how Astronauts sleep, where they work and where they go to the bathroom. After the tour of the replica he then took time to go through some questions of the delegates about their topic. After Mr. Fick was finished with answering all the delegates questions, he brought them to the hanger to show them the Airbus Beluga aircraft. The airbus Beluga is one of the biggest aircraft in the world and it used as a transporter for the transportation of airbus parts from factory to factory in Europe.

Electric
mobility

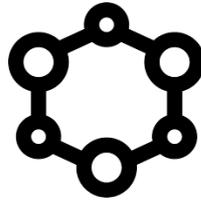


TEAM LEADER ELECTRIC MOBILITY MR. KLAUS HAASE-KOLB (SWB)

The committee of Energy and Environmental Science had the opportunity to visit the SWB, a regional energy supplier in Bremen. Delegates were greeted with SWB hats by Mr. Klaus Haase-Kolb, the expert of electric mobility at the SWB. He then guided them over to the charging stations for electric cars and explained the 3 different types of models they had at the site. He showed the delegates how to charge the electric car, before explaining the current problems with financing the charging of electric mobility and also the limit that the batteries have. He asked the delegates if they had any possible ideas how they could fix these problems in the future. The delegates then entered a building at the SWB compound where Mr. Haase-Kolb lead them into a meeting room where the delegates where first offered coffee and then where able to ask questions in order to prepare for their presentation on Thursday. The delegates had a lot of questions that Mr. Haase-Kolb was happy to answer. He was able to give the delegates a better insight about their topic. After answering all the questions the chairs thanked Mr. Haase-Kolb with a thank you basket.



Nano-
technology
for energy
and environ-
mental
challenges



BIOSCIENCES AT JACOBS UNIVERSITY PROF. DR. JÜRGEN FRITZ



Before the arrival of the special speaker, the committee of Nano-technology went over the structure of their

presentation and also prepared questions for their expert Prof. Dr. Jürgen Fritz of the Jacobs University, an expert in the field of energy and environmental challenges. He gave a presentation about his field of work for about an hour. After that he went through the committees presentation helping them to improve it. After Prof. Dr. Jürgen Fritz left the committee, they then elected the presenters of the project for Thursday and the remaining members started to work on the hand out.

Bioscience
Gene therapy
and
diagnosis



CENTRE OF BIOMOLECULAR INTERACTION DR. KATHRIN MÄDLER

The last group to meetup with their expert was the bioscience group and it was safe to say they were all excited to finally get an opportunity to have their hard worked research about gene therapy and diagnosis confirmed by an expert.



Mrs. Kathrin Mädler from the centre of biomolecular interaction at the University of Bremen extended a warm welcome to the eager group and, in order to warm up to the students, introduced herself shortly. Mrs. Mädler told the students about her career path up until her research in the field of diabetes. Additionally, she gave helpful advice for studies in general, “study something which you like, but keep in mind what is needed (in the job market) and also to look at career changes. Most importantly, do what you like”.



Then she finally began her presentation on gene editing, starting with CRISPR/Cas9, which is the “cutting tool” in gene editing, allowing modification of a mutated gene. Furthermore, the conclusion was that science academics and the WHO should work together to establish rules for further development, while considering the ethics. Other forms of gene therapy Mrs. Mädler illustrated was the adenovirus vector, as well as a certain form of microRNA’s.

As a pharmacologist and a diabetologist, her presentation took a turn to talking about her research at the university and its current importance, because the rate of diabetics and obese people is rising steadily, due to wrongly advised and marketed nutrition.

At the end of Mädler’s presentation delegates had prepared questions, which the expert answered accordingly, while also delighted at their extensive knowledge on the topic. Furthermore they received feedback on their presentations and advice on how to improve it, which was generally helpful.

Afterwards, the expert was so kind as to show the group around the laboratory, where they had the opportunity to see mice organs, cell cultures, and blood sugar measurements, amongst other things.

Afterwards, speaking and reflecting with some of the delegates informed me that they were thankful for the opportunity and felt consolidated in their positions, as well as motivated for the ending phase of their work.



