

## 2019 Activity Record

### September 6<sup>th</sup>, 2019 Kyuyo SSH Seminar –Biology



Image: The students in the seminar

Kyuyo SSH Seminar –Biology was held at school's auditorium on the 6<sup>th</sup> of September. Mr. Sugio Koji, who is a professor of educational department at the Graduate University of Ryukyu, was invited as this year's instructor. The seminar was about "What is evolution of living creature? True understanding and misunderstanding about the evolution." First, the instructor asked the students "Does the word <the law of the jungle> mean the true structure of nature?" Then, he explained what strong and weak meant in the nature and what evolution was.

Students participating in the seminar asked many questions to the instructor. Some questions were quite serious like this. "What on earth does gender differentiate?" "What do you think do sexually reproduction organisms that can be parthenogenesis know how to breed by themselves?" Some of the questions are related to the students' research and it seemed that the students were really interested in the seminar.

### September 10<sup>th</sup>, 2019 Science Dialogue for International English Course Students

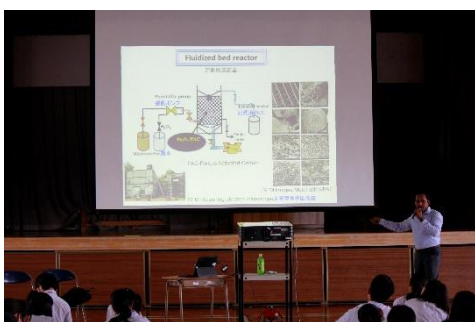


Image: the students in the lecture.

Science Dialogue was held for international English course students on the 10<sup>th</sup> of September at the gym. PhD. Karthikeyan Sekar, who is research fellow of the faculty of engineering at the graduate school of Kyushu University, was invited as the lecturer. His research field is about the development of a photo catalyst of the induction type for the treatment of wastewater of medicine. The theme of today's lecture was "Wastewater to clean water".

He was very passionate and energetic, and he gave important messages to make your dream come true to the students. "Taking risk don't get deterred on your failures. Fight back until to reach your destined place." We expected that the students keep try and error until their dreams come true no matter how difficult things wait for them.

## September 11<sup>th</sup>, 2019 SS Science and MathematicsII Mid-term Report



Image: the students in the report

The mid-term report of SS Science and MathematicsII course for the 2<sup>nd</sup> year student of science and mathematics course was held at science lecture rooms on the 11<sup>th</sup> of September. This report is for the students to present what they have studied as mid-term report using poster session. This year, we welcomed not only science teachers of Okinawa, but also many junior high school students around Kyuyo high school, which allows us to have big audience. The number of this year's themes were 37 and they are all original and unique. There were some groups that their research was about biology using chemical approach. Other chemistry groups using method of biology, and there were many different type of approach. The students had fund discussing with other students and teachers, and realized the unsolved task and ambiguous expressions about the definition. The research has just begun and we hope that the students do their best they can to the final report in December.

## September 11<sup>th</sup>, 2019 The Second Guidance Meeting



Image: Instructors at the second meeting

The Second Guidance Meeting was held at the laboratory on the 11<sup>th</sup> of September after the students' mid-term presentation. Members participating in the meeting were Mr. Kogure Kazuhiro (a trustee of the University of Ryukyu, a vice president) and other instructors from the University of Ryukyu, SSH teachers of our school, science and mathematics teachers. The theme was about for the activity report of the SSH and today's mid-term report.

The instructors evaluated students' efforts and said "the students could express their thoughts using their own words and phrases, and positively tried to discuss with others". However, when it comes to the content of the research, there need to focus more on the purpose of the research, and some of the group need to carefully read and understand preceding studies before proving their hypothesis. We as teachers will give the students those feedbacks to make their study better.



## September 18<sup>th</sup>, 2019 Kyuyo SSH Seminar –Physics

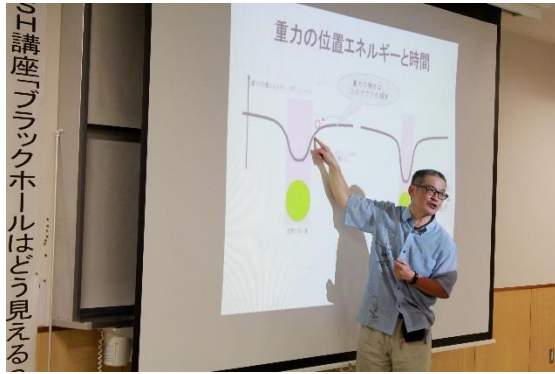


Image: students in the Kyuyo SSH seminar

Kyuyo SSH Seminar –Physics was held at physics laboratory on the 18<sup>th</sup> of September. We invited Mr. Maeno Masahiro of science department of the University of Ryukyu. The theme was “How black hole can be seen? If seen with computer graphic, what is it like? General theory of relativity.”

Speaking of general theory of relativity, you may think that there are many complicated calculations. But the lecturer explained it by using computer graphic for visualization to the students. When one of the students asked him “what is happening at black hole?”, every student was interested in and enjoyed discussion. One of the students wrote in the report and said “common sense does not always make sense”, which was impressive. another wrote “I will keep trying without giving up.” This seminar allowed the students to think and learn many interesting things for the future.

## September 29<sup>th</sup>, 2019 Meeting of Tokyo-Tsukuba field trip for parents



Image: People at the meeting

Tokyo-Tsukuba field trip meeting was held for parents on the 29<sup>th</sup> of September at the Okinawa city hall. During trip the students of science and mathematics course visit higher level of research facility and laboratories at Tokyo-Tsukuba region as SS science and mathematics II courses. Many parents took part in the meeting and preparation for the trip is ongoing as schedule.