



# SUMMER SCHOOL OF SCIENCE

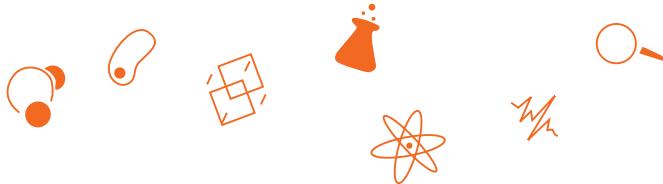
## $S^3/S^3++$

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$S^3$ : 28<sup>th</sup> July - 7<sup>th</sup> August 2019

$S^3++$ : 8<sup>th</sup> - 18<sup>th</sup> August 2019

Požega, Croatia

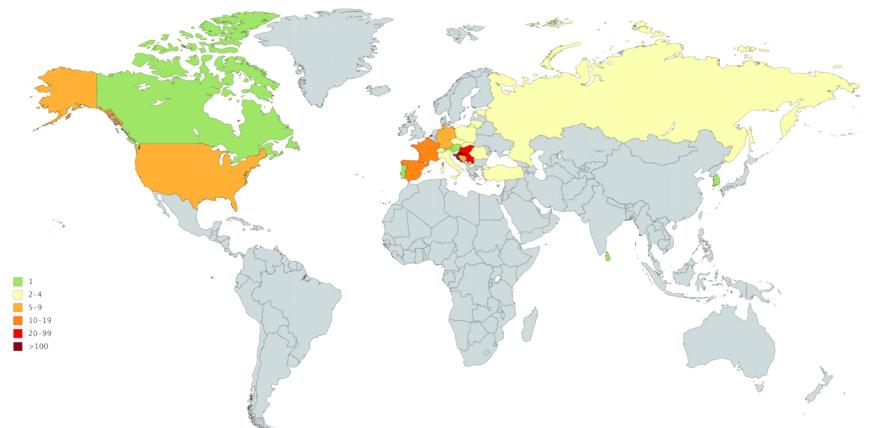


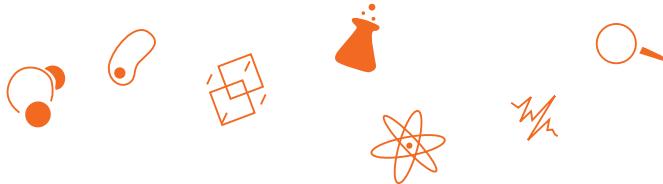
# WHAT IS THE SUMMER SCHOOL OF SCIENCE?

The Summer School of Science is an educational scientific program targeted at highly motivated high school students. The main goal of the School is to give students an opportunity to work on real scientific projects and promote career ways related to the natural sciences.

The School is divided into two camps that take place in July and August each year. Around 50 students work in small groups of three or four people supervised by a mentor who is usually a PhD student or a postdoctoral researcher.

Founded in 2001 in Višnjan by a group of enthusiastic science educators, the School expanded to Požega in 2010 due to a large interest. It has an entirely international character and so far has hosted more than 300 students from Croatia, Germany, France, Spain, Turkey, Lithuania, USA, Sri Lanka, and many other countries.



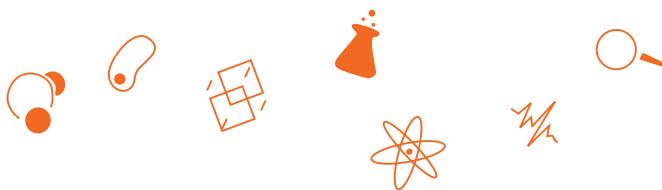


## WHAT DOES THE SCHOOL OFFER?

The School gives students an opportunity to participate in their very own research project, thus enabling them to directly experience what it is like to work as a scientist. By participating in the School, students make connections to people with similar interests, develop critical thinking, and learn how to communicate in a team environment and present their results to their peers.

Project leaders and lecturers, on the other hand, gain invaluable experience in project design and management. They expand their teaching and social skills, and learn to appreciate the importance of science popularization and work with young people.





## WHO RECOMMENDS US?

*The scientific projects done by the participants were outstanding, and I was impressed by how much they learned and what they were able to achieve. The excitement and pride in their eyes when they talked about their projects was the best testimony that the school successfully reached its goal to excite young people for science and show them they can do anything if they want to.*

**Prof. Dr. Ivo Sbalzarini, Max Planck Institute Dresden, Germany**

*Summer School of Science gives answers to practical questions how to investigate something and get relevant answers. Besides that, participants are successfully preparing for teamwork, because they have to talk and share their ideas, but also at the same time actively listen and respect others.*

**Prof. Dr. Ivan Đikić, Goethe University Frankfurt, Germany**

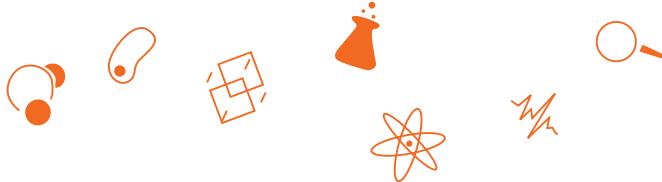
*I have been following the program of the Summer School for several years now, since I have participated three times as a guest lecturer and I can openly say that it represents one of the most dynamic and advanced science programs for gifted students, not only in Croatia but also on an international level as well.*

**Prof. Dr. Bojan Žagrović, Max Perutz Laboratories Vienna, Austria**

*Perhaps the most impressive thing about the Summer School of Science is its longevity and continuity. It's clear that the idea is good and strong, so that over the years the baton of organisation has passed seamlessly from hand to hand down generations of graduate students and there is great loyalty and support from alumni and past mentors. I'm sure that the experience of the Summer School makes a deep impression on its alumni. I was certainly impressed by the whole thing!*

**Sir Tim Hunt PhD FRS, Cancer Research UK**





## WHO RECOMMENDS US?

*Small scale it might be, but it is impressively intense and effective. I hope funds are made available for its continuation, for it is a jewel among all the laudable efforts to encourage the young into science.*

**Prof. Dr. Peter Atkins, University of Oxford, UK**

*There was a great spirit of sharing and comradeship within each of the groups and friendly rivalry with other groups. The overall atmosphere was friendly and intellectually stimulating and I'm sure most of the participants leave the school with fond memories of a most enjoyable episode. Many will also, surely, build on this experience and use it to guide a future career in science.*

**Prof. Dr. Dennis Bray, University of Cambridge, UK**

*I personally had never seen such a thing and was very impressed. I'm certain that for the students this summer school is something they will remember all their lives and for many this will change their life.*

**Prof. Dr. Joan Daemen, Radboud University and STMicroelectronics, the Netherlands**

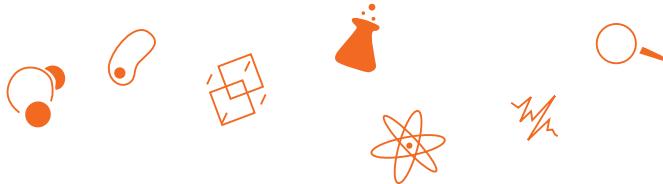
*I truly believe that this is an excellent summer school and an outstanding example of how science breaks down borders.*

**Prof. Dr. Daniela Bortoletto, University of Oxford, UK**

*The school is teaching that curiosity is important, and crucially, how the scientific method proceeds. This is creating a generation of scientifically literate individuals, something I can only support and applaud. I sincerely hope the school carries on for many more years!*

**Prof. Dr. Amaury Triaud, University of Birmingham, UK**





## WHO ARE OUR PARTICIPANTS?

Participants of the Summer School are highly motivated high school students from all over the world. Through practical work on their projects, they develop the foundations of scientific literacy and a world-wide network of contacts with experts and peers of similar interests. These are the key factors that can influence their future educational and career pathway.

*The Summer School of Science was truly a memorable experience, where I learned so much and gained so many skills that will for sure be of very valuable use in the future. – Ana, Germany*

*I met some incredible people who became unforgettable part of my life. Experiences and amount of knowledge I have gained are enormous. – Jovan, Serbia*



# TESTIMONIALS

*The Summer School of Science is a place where enthusiasm meets knowledge and creativity. There is no better feeling than the feeling of freedom to ask, discover and learn while being accompanied with people of the same kind. The S3 impressed me one more time.*

*What makes us think light is a wave? Dora, Martina, Jovan and Tomislav got the chance to play with a laser and discover some of the phenomena in physical optics, such as diffraction, interference and polarization, and get a sense of how laws that govern those phenomena can be applied to calculate some cool stuff like distances between bits on a CD or between erythrocytes on coating.*

**Tea Muzic, Swapshop leader**

University of Copenhagen, Denmark

*S3 is a brilliant project for young people who have to decide about their further career. I learned so many things; in field of my scientific interests and in general. Beautiful young people, our project leaders and organizers, showed us that nothing is hard if you really want it. In 10 days, thanks to them, I realized that it is not only important to be a good scientist, than to be a good person. It was unforgettable experience and I am really grateful for being a part of it.*

**Martina Manenica, 3rd grade**

Grammar School Metkovic, Croatia

*S3 is an extraordinary place where you can immerse yourself in interesting and challenging projects, learn a lot of new things and most importantly not only work but also spend your free time with peers which come from various places of the world and are highly motivated and united by passion for science. I have to say, S3 was the best experience in my life! There I not only gained new knowledge, had an opportunity to carry out a project, met many wonderful people, got lots of useful advice from projects/swapshops leaders, experienced new things, but also found amazing friends. I'm happy I got an opportunity to participate!*

**Karolina Guzauskaitė, 2nd grade**

Kaunas University of Technology Gymnasium, Lithuania



*This Summer School was the best experience in my life! I was given the opportunity to learn about science and things related to it. I've met many excellent people both students and lecturers/swapshop leaders who gave me a lot of useful advice which will help me in my future career. I gained knowledge and a lot of friends during this school, everything was so well organised (with perfect ration of hard work and fun/free time). I hope that in the future this school will grow and become more popular and that, one day, I will come back to it: either as a lecturer, swapshop leader or something else.*

**Tin Kocijan, 4th grade**

Prva Gimnazija Varazdin, Croatia

*Summer School of Science gave me the opportunity to work so closely with so many successful scientists in such an early age, which is such a great and rare opportunity. Learning from them about science is great, but It's also wonderful to hear them talk about life, success and failures, and realize what are the things that really make somebody a leader in also a lot about teamwork and other cultures which were brought together based on common interests. It was great to meet so many, I could say, global peers who are all so ambitious and well rounded, possibly future leaders in science and I think that friendships and connections are a valuable thing the school brought us, and it will probably be a while before we realize the full impact it had on us.*

**Tamara Tica, 3rd grade**

Grammar School Jovan Ducic, Bosnia and Herzegovina

*S3 was an unforgettable experience I still continuously gush over months after it ended. I left with many good memories and new friends, all of whom share my enthusiasm for science and learning. The work we did was satisfying and fun but never boring. We also had just enough free time to bond and relax, which is why most of us are still in touch. I believe everyone – participants, project leaders, guests and organizers – felt grateful for being a part of this Summer School, regardless of whether it was their first.*

**Laura Busak, 2nd grade**

V. Gymnasium in Zagreb, Croatia



# ORGANIZERS 2019



## S3

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## S3++

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