

DAY 6: Friday, 26 July**STUDENT****MENTOR**

- 9:30 a.m. – 2:30 p.m.
Theoretical exam
› Lycée Pierre Gilles de Gennes Highschool
- 7:00 p.m. – 1:00 a.m.
Reunion party et Partners' forum
› Polytechnique School

- 10:00 a.m. – 3:00 p.m.
Visit of Versailles palace and its garden
- 7:00 p.m. – 1:00 a.m.
Reunion party et Partners' forum
› Polytechnique School



Château de Versailles

**Birthday**

Paolo Italy Student

Meteo

28°C
sun & clouds

making science together!

You want to discover Paris? Walk along the river Seine's banks!

The river Seine has always been crucial for the Paris' development and prosperity, providing water, defense and a way to bring merchandises in and out of the city... In particular, dyers, launderers and other trades had taken up residence on its banks. Nowadays, only booksellers still retain the right to hold shops on the quays.

You can discover almost all of Paris by walking along the river Seine's banks, which are now almost entirely forbidden to cars, thus making a nice promenade: three parks, two train stations, one ministry, the city hall, two theaters, two universities, many museums among which the Louvre and Orsay's, the Invalide Hotel, the "Petit Palais" and "Grand Palais" and, of course, the gothic jewel of Paris, the cathedral "Notre Dame de Paris".

Its construction began in 1163 and lasted more than 170 years. It is 130 m long, 48 m wide, 69 m high for the tower. Composed of 10 bays for the nave and 5 for the choir, its interior was majestic with a roof height of 43 meters, 500 tons of wood and 250 tons of lead... before the fire on April the 15th 2019. Fortunately, the structure was saved and will allow Notre-Dame to be restored... so come back in a few years to see it as beautiful as before!

Bayer: innovation is our moto!

Population growth and aging represent real tomorrow challenges, and we are uniquely positioned to rise up to this challenge thanks to our positioning in life science. Our activities cover sectors as different as pharmaceuticals, medicines, dietary supplement... but for all of them, innovation is the foundation of our strategy and our company ideal. This innovation is present in R&D, but also at every echelons of our enterprise, as all our employees are constantly searching new improvement for our products and services.



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POUR L'ÉCOLE
DE LA CONFIANCE

6



catalyzer

Relaxing break!



Between the practical and theoretical exams, students are enjoying the sunny day and their free time at CIS Kellerman, their accommodation place.

I C h O
51st — International
Chemistry Olympiad
France — Paris — 2019

École Polytechnique

225 years old



The “Ecole Polytechnique” was founded in Paris in 1794 during the French revolution and became a military school during the Napoleonic period. Nicknamed “l’X”, it is a highly selective scientific and engineering school. Moved to Palaiseau in the south of Paris since 1976, the Ecole Polytechnique has grown as an international university, offering top-level research (22 laboratories), academics (Bachelor, Master’s, PhDs), and innovation (including startup incubators) with foreign students and researchers from all around the world (as of today, 36% of students and 39% of faculty members).

The school’s heritage and traditions are numerous, and among its famous students are Henri Becquerel (he shared the Nobel Prize in Physics with Pierre and Marie Curie for discovering radioactivity), Louis Joseph Gay-Lussac (famous in Physics for his gas law, he co-discovered the hydrogen/oxygen composition of water, the element Boron, identified Iodine as a new element and synthesized cyanogen) and Henry Le Chatelier (famous for his principle on chemical equilibrium, he almost discovered the synthesis of ammonia).

Tonight!

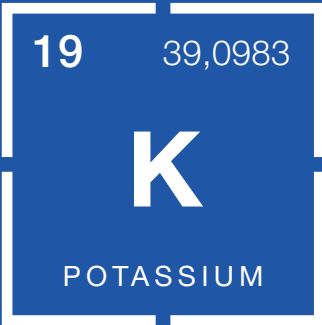


We are sure you can hardly wait until tonight: the task being done, meeting with your mentors/students again, enjoying the dinner and the evening... we’ll get there soon! However, tonight will also be the stage for the partners’ forum. As you can easily imagine, this International Chemistry Olympiad couldn’t have taken place without our numerous sponsors and partners. You have heard about some of them already, but they are many more to have contributed to this fantastic event – from giving money, to offering the free use of space – like the École Polytechnique for the reunion party tonight – and donation in kind – the glassware and products for the experimental task for example! Tonight, you will have the opportunity to meet them, and they are eager to meet you as well. They will take part in the Reunion party and dinner, and they will have a stand ready to talk to you about what they do, and how they support the 51st IChO, and science in general. Don’t miss the opportunity to talk with all the representative of museums, French schools and labs, and international chemistry companies.

Periodic ID card of the day

19 . Potassium

Discovery: 1807
by Sir Humphry Davy
(London UK)
Family: alkali metals
Period: 4th



A few of its properties

First metal to be isolated by electrolysis, metallic potassium is white, very light and very reactive: oxidized by air, it has to be kept in oil. Therefore potassium is seldom used in its metallic form but rather as ionic compounds: potassium nitrates are found in black powder, potassium carbonate in soap, potassium nitrates in fertilizers – at an industrial scale. The right ratio between K⁺ and Na⁺ ions is essential for the functioning of the nervous system, heart and muscles. Should you miss some K⁺, bananas are the right diet for you!

Game of the day

The name of your country, state, region, city...

The name of many elements was chosen from a place, or a geographical region. Including the record 4 times for Ytterby, a total of 32 elements are named after a location: from small villages to large continents. Five elements are named after currently existing countries, can you list them?

Answer – Game of Thursday, 25 July

The number of iron atoms has 32 digits = 4 digits (mass of Iron in tons) +6 (into grams) -1 (into moles) +23 digits (into number of atoms). You can solve in a different way of course.

Vocabulary

	
Fête	Party
C’est fini !	It’s over!
Soulagement	Relief
S’amuser	To have fun
Profiter	To enjoy
Retrouvailles	Reunion
Fatigué	Tired
Donner sa langue au chat	Literally: giving one’s tongue to the cat - Meaning: not knowing

Free time at CIS Kellerman!



In the wake of the theoretical exam, students make the most of their time and study!



Others prefer taking a moment to play board games with their friends...



... and some unwind with yoga!



In the meantime, mentors have been working all day on the translations of today’s theoretical exam!