



United Nations  
Educational, Scientific and  
Cultural Organization



International Year  
of the Periodic Table  
of Chemical Elements



All-Russian  
Science  
Festival

NAUKA

## Science for All: Interactive Chemistry Exhibition

The Management Committee of the International Year of the Periodic Table of Chemical Elements (IYPT2019) in partnership with All - Russian Science Festival invites you to visit an Interactive Exhibition on Chemistry at UNESCO Headquarters from 28 to 30 January 2019.

Launched as part of the Opening Ceremony of the International Year of the Periodic Table of Chemical Elements (IYPT2019) on January 29th, this exhibition will travel around the world during the year 2019.

Science for All: Interactive Chemistry Exhibition - an exciting journey into the world of «living» Chemistry where you will have the opportunity to feel like a real scientist, to carry out a series of chemical experiments, discover the history, immerse yourself into virtual reality and explore outer space.

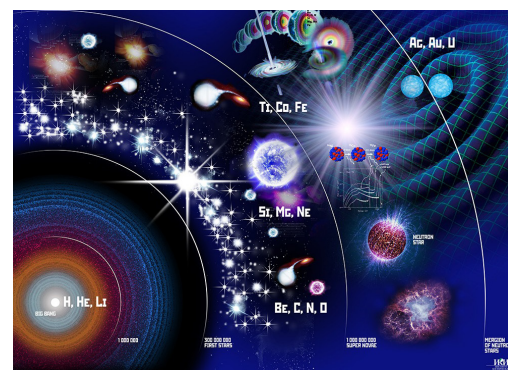


### 1. Historical zone. Take a selfie in Mendeleev's Cabinet

This year, it is a century and a half since the creation of the Periodic Table. In 1869 there were no Internet, computers, smartphones and many other modern devices. We reconstructed the study of a chemist who worked in the nineteenth century. In the exhibition, visitors can see the basic scientific tools of that time, look at the first publication of the Table, and even take a selfie with its creator, Dmitrii Ivanovich Mendeleev.

### 2. Zone of space. Find out where it all came from

How did hydrogen appear? And Iron? And what about Gold? Answers to these seemingly simple questions lie in the depths of the Universe. The birth of the chemical elements that surround us was due to Space. These were large-scale phenomena: the Big Bang, thermonuclear reactions in the depths of stars, supernova explosions, the merging of neutron stars. Right now, over our heads, huge pressures and temperatures convert Hydrogen into Helium, Helium into Carbon, Carbon into more heavy elements up to the Iron, and temperatures convert hydrogen into helium, helium into carbon, carbon into heavier elements including iron, and finally during the fireworks of neutron stars colliding, argentum, gold and uranium are born.



### 3. Zone of novel elements. See how new elements are synthesized

No matter how powerful the Cosmos is, only chemical elements up to and including Uranium can appear in nature. Everything that goes in the Table after Uranium is man-made. Since the middle of the 20th century, scientists have been synthesizing new super heavy elements. In accelerators, the nuclei of some isotopes are accelerated and collided with targets made of other isotopes. At the exhibition, you can visit the stand of the famous Joint Institute for Nuclear Research located in the city of Dubna, Moscow Region. In recognition of the achievements of scientists of this institute, elements 105 (Dubnium), 114 (Flerovium), 115 (Moscovium) and 118 (Oganesson) have been named.

**4. Zone of Education. Dive into virtual reality**

Learning can be fun! You will have a chance to become acquainted with the latest training technologies. There will be immersion in virtual reality, vivid experiments and much more, after which you will never say that chemistry is boring.

**5. ArtScience zone. Combine smart with beautiful**

In this part of the Exhibition, you can see the artwork inspired by chemistry. Elements will appear before you in vivid images, where the human is intertwined with the scientific and strict facts, with creative imagination.

**6. IT zone. Create your own Table**

There are many versions of the Table of elements. Some variants are intended for younger students, some for high school students, and others for professional scientists. A team of chemists, designers and programmers gathered several thousand variants of the Table and made a system that can satisfy everyone. In interactive mode, one can receive one's preferred format of presentation of chemical elements - a simple table with pictures or a more complicated version with a larger set of parameters.

**7. Zone of experiments. Take part in research**

Everything will be collected here that is attractive to students of chemistry. Anyone can become a participant of scientific experiments. All these experiments are very impressive: sounds, colours, violent reactions and ... a little bit of magic.

**8. Zone of green chemistry. Make the Earth better**

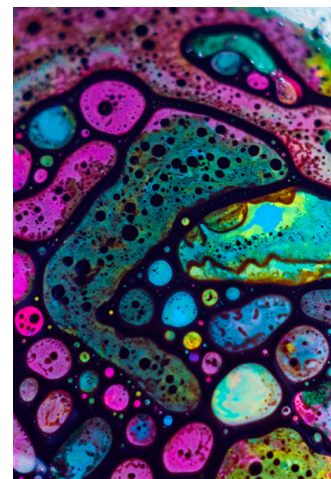
At this stand, you can be acquainted with the works of the winners of the world young scientist competition. This competition was held under the slogan "Green Chemistry for life!" and focused on how to make our world cleaner and technologies, more environmentally friendly.

**9. Molecular bar. Taste science**

Chemistry surrounds us everywhere, even on our plate. You can take a break from lectures and excursions in the Molecular bar, where unusual dishes created using chemistry and physics technologies await you. For example, ice cream cooked directly at the exhibition using liquid nitrogen. Try it, it is tasty and, at the same time, informative.

**Chemical robot. Determine what you consist of**

**10.** A special installation is brought to the exhibition, which allows you in a few seconds to determine the ratio of different chemical elements in a person. Anyone can pass such a test. Find yourself in the great Table!



**NAUKA O+ Science for All Festival: Interactive Chemistry Exhibition**

at the UNESCO HQ / Salle des Pas Perdus  
7, place de Fontenoy, 75007 Paris

from 28 to 30 January 2019

Visit with guide and animations:  
28 January from 13h00 till 16h00  
30 January from 11h00 till 16h00

UNESCO does not provide parking.  
We recommend to use public transport.  
By metro : Ségur-UNESCO, Cambronne, Ecole militaire  
By bus : 28, 80  
Station Velib': n° 15009 Suffren, 140 avenue de Suffren