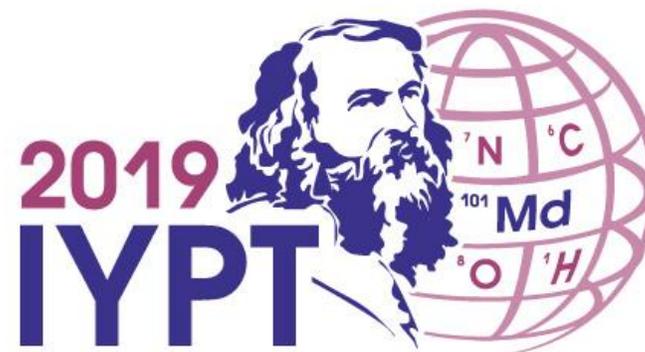


INTERNATIONAL YEAR OF THE PERIODIC TABLE 2019



United Nations
Educational, Scientific and
Cultural Organization



International Year
of the Periodic Table
of Chemical Elements

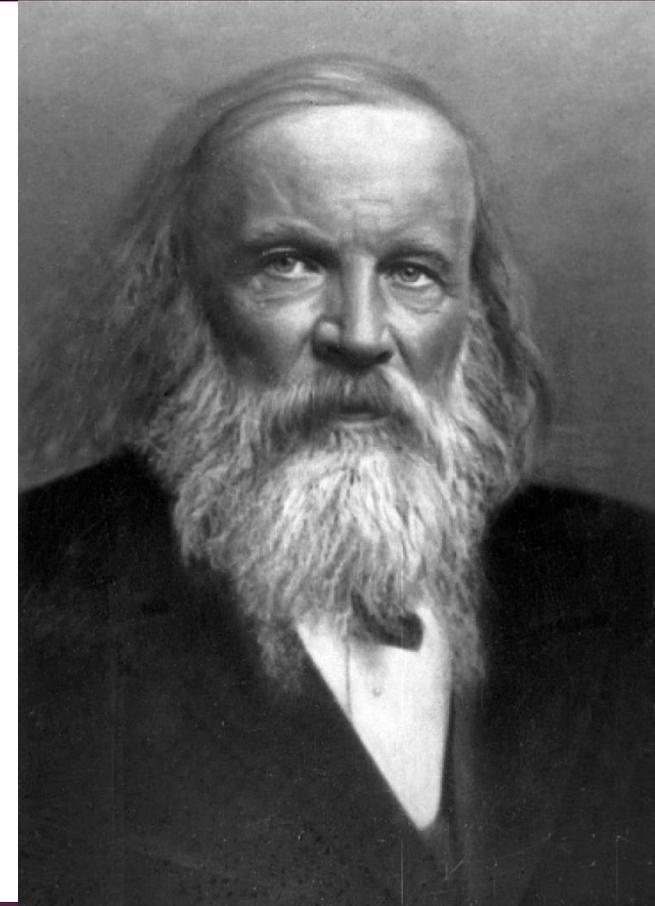
Professor Natalia P. Tarasova

Chemistry is the music of nature,
which, while playing with a limited
number of elements, creates the
infinite beauty of the Universe.

Founding the Periodic Table

The Russian scientist Dimitri Mendeleev published the basis of the Periodic Table as we currently know it 150 years ago.

He is known as the founder of the Periodic Table.



On December 20th, 2017, the United Nations General Assembly during its 74th Plenary Meeting, at the 72nd Session proclaimed 2019 as the International Year of the Periodic Table of Chemical Elements (IYPT 2019). In proclaiming an International Year focusing on the Periodic Table of Chemical Elements and its applications, the United Nations has recognized the importance of raising global awareness of how chemistry promotes sustainable development and provides solutions to global challenges in energy, education, agriculture and health. Indeed, the resolution was adopted as part of a more general Agenda item on Science and Technology for Development. This International Year will bring together many different stakeholders including UNESCO, scientific societies and unions, educational and research institutions, technology platforms, non-profit organizations and private sector partners to promote and celebrate the significance of the Periodic Table of Elements and its applications to society during 2019. The initiative of the IYPT was supported by the International Union of Pure and Applied Chemistry (IUPAC), the International Union of Pure and Applied Physics (IUPAP), European Association for Chemical and Molecular Sciences (EuChemS), the International Astronomical Union (IAU), The International Union of History and Philosophy of Science and Technology (IUHPS), and by more than 80 IUPAC National Adhering Organizations, academies of sciences, chemical societies, research institutions.

Partners

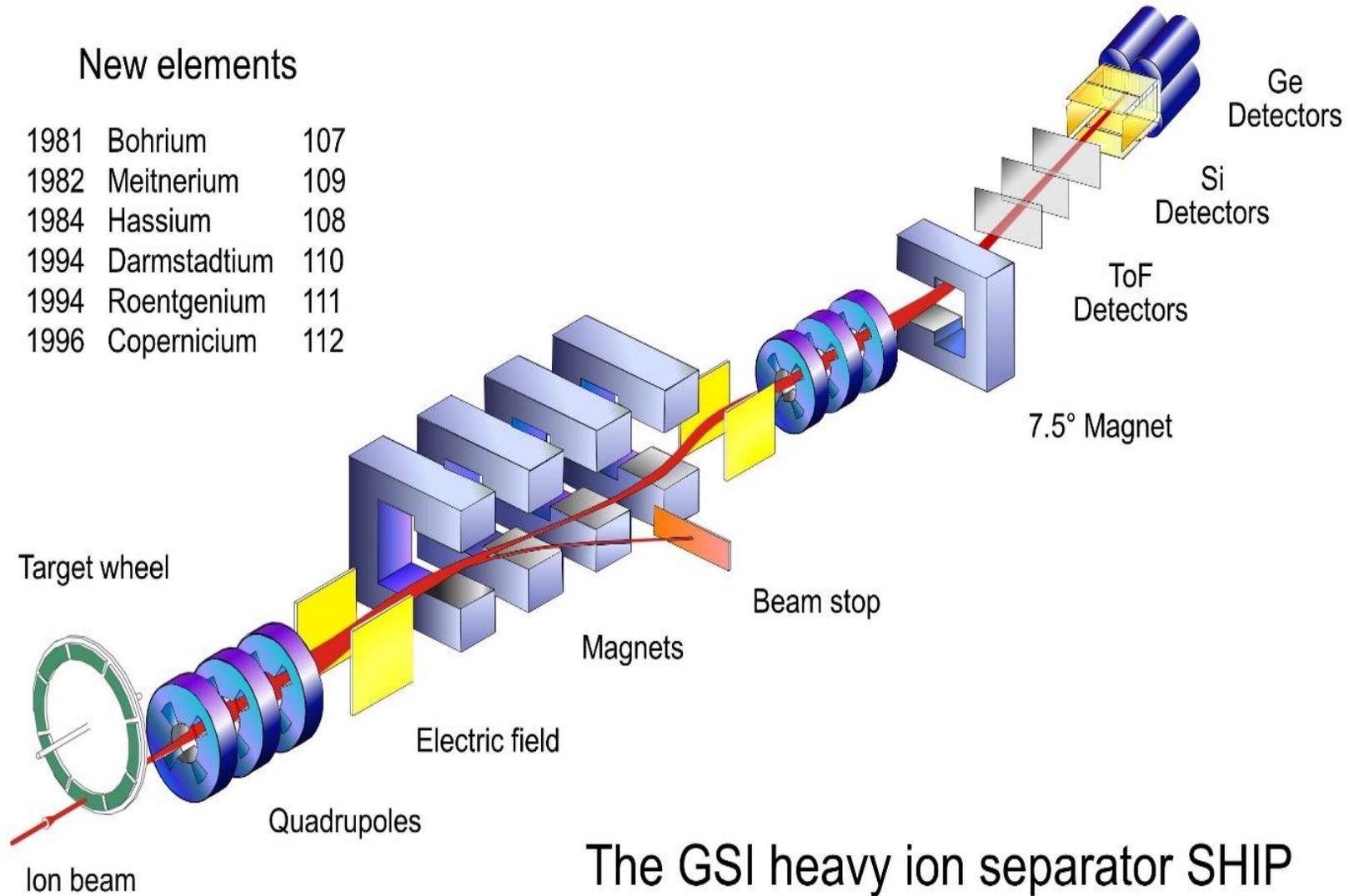


Sponsors



New elements

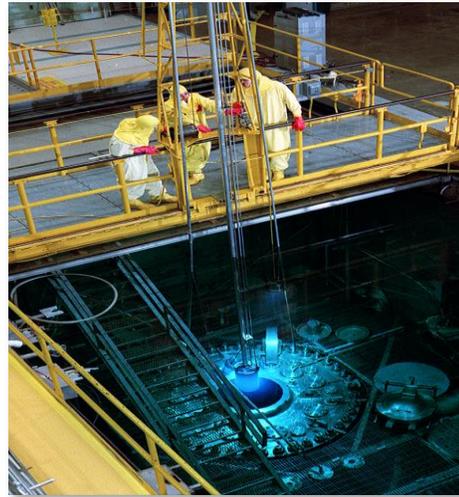
1981	Bohrium	107
1982	Meitnerium	109
1984	Hassium	108
1994	Darmstadtium	110
1994	Roentgenium	111
1996	Copernicium	112



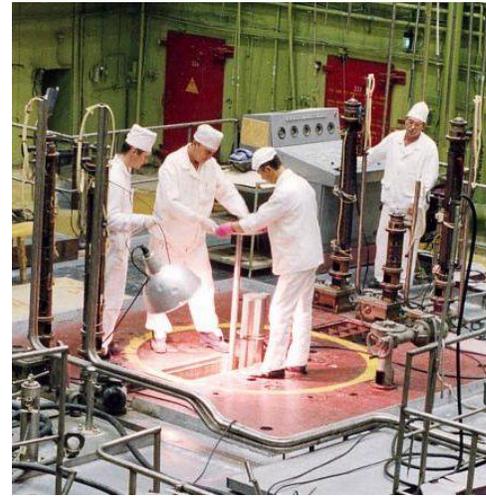
The GSI heavy ion separator SHIP

Isotope reactors irradiation of targets at HFIR

HFIR, ORNL, Oak Ridge, USA



CM-3, IAR, Dimitrovgrad, RF



The Earth from Space



The International Year of the Periodic Table of Chemical Elements will give a greater resonance to the celebration of the International Day of Women and Girls in Science on 11 February 2019 by highlighting women role models who substantially contributed significantly to the discovery of elements of the Periodic Table. The examples of Marie Curie, who was awarded Nobel Prizes in 1903 and 1911 for the discovery of Radium (Ra) and Polonium (Po), Berta Karlik for the discovery of Astatine (At), Lise Meitner, who identified an isotope of Protactinium (Pa), Ida Noddack for the discovery of Rhenium (Re), and Marguerite Perey, who discovered the Francium (Fr), will be celebrated in line with the gender equality priority of UNESCO in view of the advancement of the 2030 Agenda for Sustainable Development.

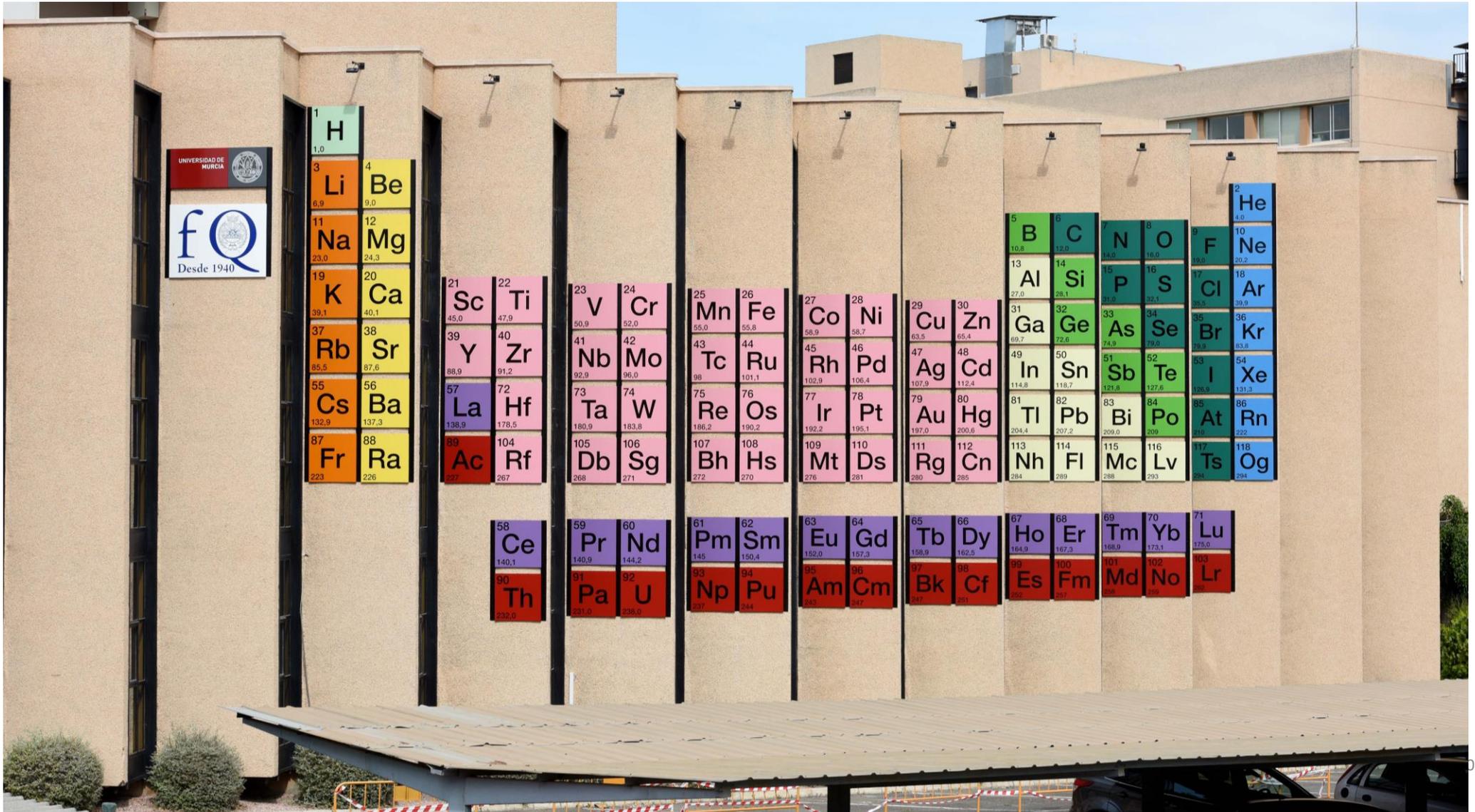




International Symposium on

Setting their Table: Women and the Periodic Table of Elements

Feb. 11-12, 2019 - Murcia (Spain)



Global Women's Breakfast "*Empowering Women in Chemistry: A Global Networking Event*".

The Global Women's Breakfast aims to assist women chemists to expand their network of contacts, both locally and internationally. Women at different stages of their individual careers can inform each other about their career progress, and together explore opportunities, in professional development and in research or teaching horizons. Organizations of all types, e.g., universities, companies, national chemistry societies, government laboratories, and other scientific organizations, as well as individual groups of chemists, are invited to participate. It will be held on a single day – February 12, 2019.

<https://iupac.org/100/global-breakfast/>

PERIODIC TABLE CHALLENGE

IUPAC is hosting an online, global challenge about the Periodic Table of the Elements. The online challenge is aimed at a global audience of young students, encouraging them to become part of a global community that is excited about chemistry. This activity will also encourage chemistry classes, schools and individuals to play with a goal to reach over a million players around the world.

Launched on 8th Jan. 2019. <https://iupac.org/100/>

PERIODIC TABLE OF YOUNGER CHEMISTS

Co-sponsored by the International Younger Chemists Network (IYCN)

In celebration of the 100th anniversary of IUPAC and the International Year of the Periodic Table, IUPAC and IYCN announce the creation of a Periodic Table of Younger Chemists. Beginning in July 2018 and ending in July 2019 at the World Chemistry Congress and IUPAC General Assembly, we will honor a diverse group of 118 outstanding younger chemists from around the world who in embody the mission and core values of IUPAC. The resulting periodic table will highlight the diversity of careers, creativity, and dedication of the young chemists leading us into the next century. Winners will be profiled on the IUPAC100 website and will receive a certificate from the IUPAC. Nominations are now being accepted.

<https://iupac.org/100/pt-of-chemist/>

The events of the IYPT will enhance the understanding and appreciation of Periodic Law and chemistry in general among the public; promote the role of chemistry in contributing to solutions to many global problems, such as climate change and the preservation of natural resources; promote awareness of the interdisciplinary nature of twenty-first century science, and emphasize how interactions between different thematic areas of the basic sciences will be increasingly needed in future research and education, and in the achievement of the 2030 Agenda for sustainable development; enhance international cooperation by coordinating activities between learned societies, educational establishments and industry, focusing specifically on new partnerships and initiatives in the developing world; establish durable partnerships to ensure that these activities, goals and achievements continue in the future beyond the International Year of Periodic Table of Chemical Elements.

The preliminary programme includes the following events and it is intended that many others will be added across the globe as 2019 approaches:

- The opening ceremony for the International Year of the Periodic Table of Chemical Elements is planned for February 2019
- Special Symposium during IUPAC 2019, Paris: The Periodic Table at 150
- 51st International Chemistry Olympiad, July 2019
- Mendeleev International Chemistry Olympiad, April 2019
- EuCheMs Inorganic Chemistry Conference EICC-5, June 2019
- Celebration of the 150th anniversary of Mendeleev Table of Chemical Elements during the 47th World Chemistry Congress, Paris, July 2019
- The jubilee Mendeleev Congress on General and Applied Chemistry related to the International Year of the Periodic Table, St. Petersburg, September 2019

Welcome to the Opening Ceremony of IYPT2019

Paris, UNESCO HQs, January 29, 2019 www.iypt2019.org/opening-ceremony



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Save the date!

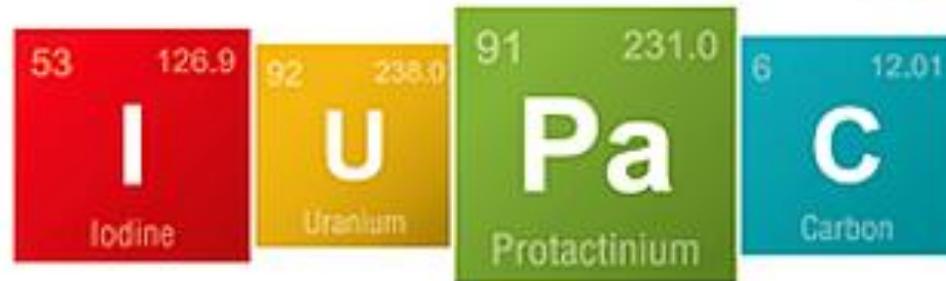
The official Closing Ceremony of IYPT2019 will take place in Tokyo, Japan on the 5th of December 2019.

Save the date!

50th General Assembly &
47th IUPAC World Chemistry Congress

5-12 July 2019, Paris, France

www.iupac2019.org



PARIS, FRANCE

Join the celebrations!

Register your activities on our website

www.iypt2019.org

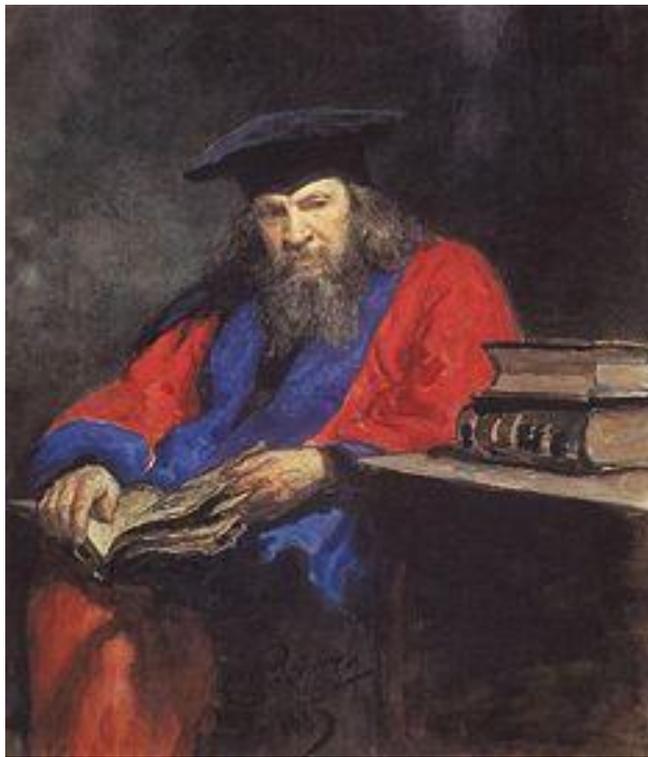


Join the celebrations!

Follow us and share your stories via #IYPT2019
on Facebook, Twitter and Instagram

Visit our website: www.iypt2019.org





„It is the function of science to discover the existence of a general reign of order in nature and to find the causes governing this order. And this refers in equal measure to the relations of man - social and political - and to the entire universe as a whole.“

**Mendeleev on the Periodic Law: Selected Writings,
1869 - 1905**