

International Day of Planetariums 2020: March 7th at Astronomical Centre Rijeka

HOUR	PROGRAM	PLACE
	MORNING	
9 - 10	"Solar System Safari" planetarium live show for kids	planetarium
10 - 10,30	Cosmonaut Encounter: Meet Sergej Viktorovič Zalyotin – for kids	planetarium
11 - 12	"Stellar Game" planetarium live show for kids	planetarium
10,30 - 11,30	Cosmonaut Zalyotin: Science experiments and experiences in Space – for adult public	Main hall
	<i>Exhibition of Russian children`s drawings on theme of space and cosmonauts "My Gagarin"</i>	exhibition hall
	EVENING	
18 - 19	"Planetariums world" + "Dinosurs at Dusk" live show + show	planetarium
19 - 20	"Loosing the Dark" + "Stars and Constellations of the Current Season's Sky" show + live show	planetarium
20 - 21	"The world of the Observatories" + "SEEING! A photon's journey across space, time and mind" Live show and show	planetarium
21 - 22	Tony and Friends Show: The Unhappy Clown Theater in the planetarium	planetarium
22 - 22.30	Laser Guided Sky Tour (with a clear sky) and a good wishes launching	Park outside the planetarium
	<i>Permanent exhibition of Yuri Gagarin`s bust</i>	Park outside the planetarium

Summary of the program:

Astronomical centre Rijeka will dedicate the International Day of Planetariums 2020 program to **the 10th edition** of celebrating and hosting this international manifestation in Rijeka and Croatia and **Rijeka being the European Capital of Culture 2020**.

The celebration will start on Friday 6th march with the unveiling ceremony of the bust of Yuri Gagarin and hosting **one** encounter with **Mr. Sergej Viktorovič Zalyotin, russian cosmonaut** at the Rijeka Astronomical Centre. The unveiling ceremony is organised in the occasion of Russian day, in collaboration with the City of Rijeka, the Embassy of the Russian Federation, the International Public Charity Fund "Dialogue of Cultures - United World" and the Rossotrudničestvo, dedicated to the *Soviet space program*.

The Rijeka planetarium prepared a special 20 min. live planetarium program about the history of Soviet and Russian cosmonautics. The achievements from sending the first artificial satellite and the living beings into Earth orbit to test the effects of a weightless condition on the body. As an introduction to sending the first man to orbit. Through the presentation, we will present the most deserving people for accomplishing space exploration pioneer tasks. That led also to sending the first woman into space and other pioneer endeavours.

On march 7th – the International Day of Planetariums morning programme will be organized for the youngest visitors of Rijeka's planetarium with an Cosmonaut Encounter. Meet Sergej Viktorovič Zalyotin and get inspired to become an astronaut and two live planetarium program and shows. For the adult public, in the main hall there will be organised a presentations on Cosmonaut Zalyotin: Science experiments and experiences in Space.

Evening programme aims to present planetariums world through a combination of short live shows and films and through an educative and humor Theater under the planetarium dome, a Laser Guided Sky Tour and a goodwish messages from Rijeka planetarium visitors.

Detailed program:

Solar System Safari

We take youngest to an exploring journey to the Solar System. From the Sun, called Sol by the ancient Romans we make a short **stop landing on the Moon surface as a real astronauts**. Then with a special rocket we pass by inner planets, through the Asteroid Belt to the four gas giants and on to the disk-shaped Kuiper Belt. We get familiar with the "Solar family" on way back when we all together recognize the places we visited together our great "Star trip".

Cosmonaut Encounter: Meet Sergej Viktorovič Zalyotin

Young visitors will have the opportunity to meet veteran Roscosmos cosmonaut. During cosmonaut Encounter, this Russian hero, cosmonaut-commander, pilot will share with younger how is to live and work in space, to walk in space and how to become an astronaut.

Stellar game

This live show is suitable for the youngest, for the kindergarten children who will learn, while "playing", to recognize what sky objects can be seen on a night and day sky. By counting to ten they will learn about some constellations, and further, play to recognize a few and to draw them.

Cosmonaut Zalyotin: Science experiments and experiences Space

Cosmonaut **Mr. Sergej Viktorovič Zalyotin** will present his work on Mir and ISS: research in Space. The presentation will also include cosmonaut's experience in space walk and others. He will share his experience during a live presentation and question & answer session.

Evening program:

"Planetarium world" + "Touching the Edge of the Universe" (live show + show)

Planetariums world

Find out how the planetariums develop throughout the history in 15 minute live planetarium show. The change from simple representation and maps of the sky, with the progress in

optics, instrumentation, electricity and digital technology into "starry theaters". Their appearance, purpose, and role change from the history of simple astronomical educational aids to entertaining educational digital, hybrid planetarium theaters. Familiarize with the special features of planetariums and their purpose and use.

Dinosaurs at Dusk

Dinosaurs at Dusk, a whirlwind time travel adventure back to the epoch of the Dinosaurs. This film presents well the planetarium domes as a time machines. Propel yourself back through the epochs to explore an Earth teeming with Pterosaurs and the ancestors of modern-day birds: the feathered Dinosaurs! Lucy and her father fly through the Triassic, Jurassic and Cretaceous to soar with Quetzacoatlus, escape from raptors and ride behind Argentinosaurus.

"Losing the Dark" + "Stars and Constellations of the Current Season's Sky" (show + live show)

As introduction to a "stargazing" program in the planetarium we start with ten minute **Losing the Dark**. It introduces and illustrates some of the issues regarding light pollution and suggests three simple actions people can take to help mitigate it. Starry skies are a vanishing treasure because light pollution is washing away our view of the cosmos. It not only threatens astronomy but also disrupts wildlife, and affects human health. The glows over cities and towns — seen so clearly from space — are testament to the billions of dollars spent in wasted energy by lighting up the sky.

Stars and Constellations of the Current Season's Sky (planetarium live show)

Discover the beauty of the dark night sky that has inspired poets and guided mariners. Learn how to find the principal stars and constellations and hear a story or two about them.

"The world of the observatories" + "SEEING! A photon's journey across space, time and mind" (live show + show)

The world of the observatories

On the Day of planetaria we choose to share more about "other astronomical classrooms". The development of the telescope mark the use of the observatory from exploring and scientific facility, located in a distant areas, far away from the artificial lighting, to observatory in the cities used for education and making the stargazing popular. The audience will hear about significant observatories in the world and Croatia – Rijeka especially. It will be presented different types of the telescopes, the ones which can be on Earth and in Space and which don't need a protective dome.

SEEING: A Photon's Journey Across Space and Mind

This is a full-immersion planetarium program, which uses hemispheric animations and video to teach how human vision works. Imagery from all over the world including humanity, landscapes, skyscapes, wildlife and of space are the backdrop for photo-realistic animations to create the story of a photon's journey from the belly of a star, across the galaxy, to a young stargazer's eye. The photon's journey is completed when it's energy is converted into an electro-chemical impulse that then travels the neuro pathways of the brain and the various centers that create the image the mind sees.

Tony and Friends Show: The Unhappy Clown, theater in the planetarium & goodwish messages

An interactive show with puppets, a clown, magic and a planet game. Steve explains a bit to his puppet Tony Tucan about the planetarium. The first skit is a comedy mime about a clown who wants to eat a piece of pie while watching the stars. Then there is a game like hot potato where two groups pass the planets (Balloons) in order in an ellipse around the sun (also a balloon). Finally the story of the Unhappy Clown who is searching for happiness. He tries to make others happy to no avail, till one day the Universe sends him flowers and finally a heart of love (Magic Tricks). Then he is truly happy!

The planetarium programme and this interactive puppet show will end with a goodwish messages from the Rijeka planetarium visitors to the Universe. How? Come and see!!!

Laser Guided Sky Tour

With a clear sky the Day of planetaria 2020 will end by reconnecting with nature and enjoying the beauties & treasure of Starry skies in the Astronomical centre Rijeka park, next the planetarium. By putting up the jackets and participating in an exciting & educational laser guided sky tour.

More about the exhibitions:

Russian children about Space and Cosmonauts - art exhibition "My Gagarin"

For the occasion of the International Day of Planetariums 2020 in the Astronomical centre Rijeka will be exposed children drawings on *theme of space and cosmonauts "My Gagarin"*. This art exhibition is prepared by the students of the Gagarin Children's Art School in the city of Gagarin, where the first cosmonaut was born. The young artists express in their paintings deep love and proud of their great fellow countryman.

The exhibition was dedicated to the International Day of Aviation and Cosmonautics April 12, will be open for visitors in Astronomical Centre Rijeka till the end of March 2020. Organised in collaboration with the Embassy of Russia.

Yuri Gagarin's bust – permanent exhibition in the Astronomical centre Rijeka park On the occasion of *Rijeka being the European Capital of Culture 2020, the Russian day and 10th International Day of planetariums in Rijeka, the bust of first cosmonaut Yuri Gagarin will be presented*

The sculpture was donated by the International Public Charity Fund "Dialogue of Cultures - United World" and thanks to collaboration with the Embassy of Russia and the Municipality of Rijeka, the Association Rossotrudničestvo and Rijeka sport L.t.D.

The bust, made by artist Aleksei Dmitrievitch Leonov, will be presented by Anvar Azimov, the Ambassador of the Russian Federation to the Republic of Croatia, Vojko Obersnel, the Mayor of Rijeka and Director of Rijeka sport L.t.D., Igor Butorac.

More about program organizer and collaborators:

Sergei Viktorovič Zalyotin (born April 21, 1962) - is a Russian cosmonaut and a veteran of two space missions.

Zalyotin is a Hero of the Russian Federation (the highest honorary title of the Russian Federation). He was born in Tula and attended the Borisoglebst Higher Military School before becoming a fighter pilot in the Russian Air Force. He also holds a degree in ecological management. Zalyotin was selected as a cosmonaut candidate in 1990. In 2000, Zalyotin was a member of the final resident crew aboard the MIR space station. He briefly visited the International Space Station aboard Soyuz TMA-1 in 2002. From April 4 to June 16, 2000 he

performed the first space flight as the commander of the Soyuz TM-30 spacecraft and Mir Orbital Complex under PC-28 programme together with A. Kaleri. In the course of operations on the orbital complex the crew carried out the station activation. During the flight he performed one space walk with a duration of 5 hours 3 minutes.

Volunteer organisation "For a Better World" (Za bolji svijet/Per un mondo migliore)

Works on promoting volunteering among youth in Rijeka and all of Croatia, through organizing seminars, workshops, presentations, practical drives and volunteer training camps where youth can experience volunteering first-hand. "Per Un Mondo Migliore" also aims at improving physical and psychological conditions of institution beneficiaries and disadvantaged families, through shows, clown therapy events, and practical actions of painting, decorating, garden work and other improvement of the surroundings through volunteering in hospitals, homes for the elderly, foster homes for children and others. Through all of its initiatives, "Za bolji svijet" promotes the human values of tolerance, non-violent communication and voluntary contributions of each individual to their local community.

International Public Charity Fund "Dialogue of Cultures - United World" is the donator of the Bust of Yuri Gagarin. Projects of "Dialogue of Cultures - United World" Fund is aimed at creating platforms for live dialogue between cultures, ethnic tolerance, preservation and promotion of the cultural heritage of humanity.

Alexey Leonov - young sculptor, the creator of the monuments to Roerich, Konstantin Tsiolkovsky, Sergey Korolyov and Yuri Gagarin. His monument to Yuri Gagarin was first installed in Huston (USA) near the NASA's historic building.

The installation of Yuri Gagarin bust in the Astronomical Centre Rijeka Park was made possible through collaboration with the City of Rijeka, the Embassy of the Russian Federation, the International Public Charity Fund "Dialogue of Cultures - United World", the Association Rossotrudničestvo and the Rijeka sport Ltd.

Rijeka sport Ltd.

Rijeka sport Ltd. is a company owned by the City of Rijeka. Its domain is construction, maintenance and management of sport facilities and Astronomical Centre Rijeka.

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