

POLYTECH

ANNUAL REPORT

THE POLYTECHNIC MUSEUM

2015

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Disruptive, event-driven, complex, headlong — that's what the year 2015 has become to the Polytech. It's been a year of partnership with various institutions, both domestic and foreign. It's been the year when the final revision of accommodation plans for the area surrounding the historical building was finally approved by city authorities. It's been a time for experimenting with formats and launching new promising projects. We've run upwards of ten major exhibitions, including *Alice in Scienceland* and *200 Keystrokes per Minute*; and two festivals, namely *Polytech* in May and *360°* in October. For the first time ever, we've arranged an outdoor science camp for children, expanded our publishing programmes, and brought the world's science stars in Moscow.

In 2015, we kept presence in mind all the time, yet continuously worked on the future of the Polytech, the museum community, and the city altogether. This year is a year to remember.

SUMMARY

2589 MENTIONS OF THE
POLYTECH IN MEDIA

30 000 CHILDREN ATTENDING
SCIENCE LABS

524 500 VISITORS OVERALL

9 EXHIBITIONS HELD AT THE
MUSEUM'S PREMISES

50 852 VISITORS AT
POLYTECH FESTIVALS IN
2 DAYS

52 LECTURES READ AT THE
POLYTECH'S LECTURE HALL WITH

6 420 VISITORS

700+ LESSONS HELD AT SCIENCE
LABS

140 576 VISITORS AT "ROSSIYA
DELAET SAMA" ("RUSSIA DOES
ITSELF")

34 EXHIBITIONS HELD AT OUR
PARTNERS' PREMISES

6 SCIENCE BATTLES,
30 CONTESTANTS, AUDIENCE
OF 2 210 PEOPLE

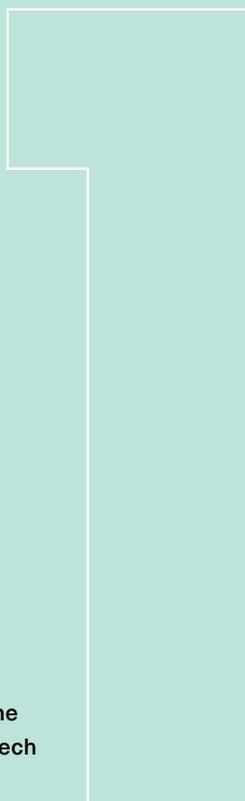
375 LESSONS AT THE
CHILDREN'S UNIVERSITY

1 078 943 ONLINE VISITORS

647 EXCURSIONS IN THE
POLYTECH AT VDNH

24 541 SUBSCRIBERS OF
POLYTECH'S NEWSLETTER

AREA



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Polytech's historical building is undergoing renovation, so we're using the time to reconceive the concept of physical area, find its place in the museum's concept, and obtain new experience.

The museum, having lived in this peculiar state for a while, is expanding its borders, both literally and figuratively.

In the year 2015, the Polytech and its exhibition programmes went beyond the VDNH pavilion 26, where the exhibition "Rossiya Delaet Sama" ("Russia Does Itself") is held, to new pavilions and new visitors. At the VDNH, in pavilion 26 and other premises, we've held exhibitions Ideas 2020, Reasons for Gravity, unWarfare, Inventing Bicycles, Alice in Scienceland, TobeUs, 100 Gadgets, Ecosystem of Excesses, and Aviation. The Dawn of New Era. Still, we didn't stop at that and went further, to other locations of the city. We've held an exhibition in Gorky Park, at the Moscow Museum of Modern Arts, in Garage, and even had a temporary exhibition at the Museum of Moscow Railways. Modern-day Polytech isn't only Moscow: there have been exhibitions in Orsk, Surgut, Kazan and Tomsk. We've opened an affiliation of the Children's University in Saint Petersburg.

In 2015, the approved project of the renewed area of the MSU incorporated the Enlightenment Center of the Polytech and the MSU. In 2016, we'll continue our work on the design documents, and obtain certificates on state expert examination and approval to start development of the facility.

Expanding across the realm of enlightenment, we've organized joint lecture series with the Enlightener Awards and The Prime Russian Magazine; launched a course on physics for adults at our Science Labs; expanded master's programme on applied cultural studies at the Higher School of Economics from three to seven courses; brought Europe's leading media arts festivals and key

players of science art to Moscow; and extended our publishing efforts.

Experimenting, we've tried some practices new for the museum. We came up with a scientific exhibition based on a fairy tale, and sent it travelling across Russia; organized children's birthdays within the exhibition; opened an electronic living room for those into audiovisual arts and electronic music; implemented keynote speakers institution at the Festival of Science and Technology Films 360°; implemented the idea of excursions in the dark at the Open Storage; brought children to our summer camp Polytech; held a lecture on reasonable consuming as exemplified by a real hog carcass at Danilovski market, and so on. The list is not exhaustive.

It all became possible due to our virtual area, the website of the Polytechnic Museum. The site has become the main assemblage point for all projects; a convenient platform for ticket purchasing and booking seats at our lessons in the Science labs; and a great tool for audience interaction.

COUNTRIES PARTAKING IN FESTIVALS POLYTECH,
POLYTECH.SCIENCE.ART, AND 360°

- SWEDEN
- NORWAY
- DENMARK
- POLAND
- NETHERLANDS
- CZECH REPUBLIC
- USA
- FRANCE
- GERMANY
- TURKEY
- CROATIA
- BELGIUM
- SPAIN
- MEXICO
- SWITZERLAND
- UNITED KINGDOM
- AUSTRIA
- PORTUGAL
- ITALY
- HONG KONG

DOMESTIC PRESENCE:

ALICE IN SCIENCELAND
ORSK
UFA IN 2016

RECONSTRUCTION OF NOISE
SURGUT
ARKHANGELSK

IDEAS 2020
SAINT PETERSBURG
TOMSK
KAZAN

PARK MUSEUM

In 2011, when the Polytech renovation concept by Japanese architect Junya Ishigami won the international contest, not everyone was charmed by his idea of Park Museum. Turning the main building's basement into a full-fledged social space with an underground green area around was considered an ambiguous solution both by some professionals and the authorities. But the Polytech team kept on believing there was nothing impossible, and the garden city may arise if we really want it to. Almost entire 2015 was full of discussions on area accommodation and multiple meetings with city authorities, engineering, architectural and utility-related disputes that may make up a decent book of memoirs.

By choosing Ishigami's design, we realized it would be at least very difficult to create an oasis in the center of Moscow, where so many interests entwine. We knew it would entail changes in the very design of urban arrangements and transport networks, and will force us to come up with solutions for keeping up an underground park, especially

considering Moscow climatic conditions. But still, notwithstanding all of its difficulties and apparent whimsicality, the project has been finally launched.

1,2 Amphitheater and open basement in front of the main entrance at the New Square side.

© Wowhaus architecture bureau



1



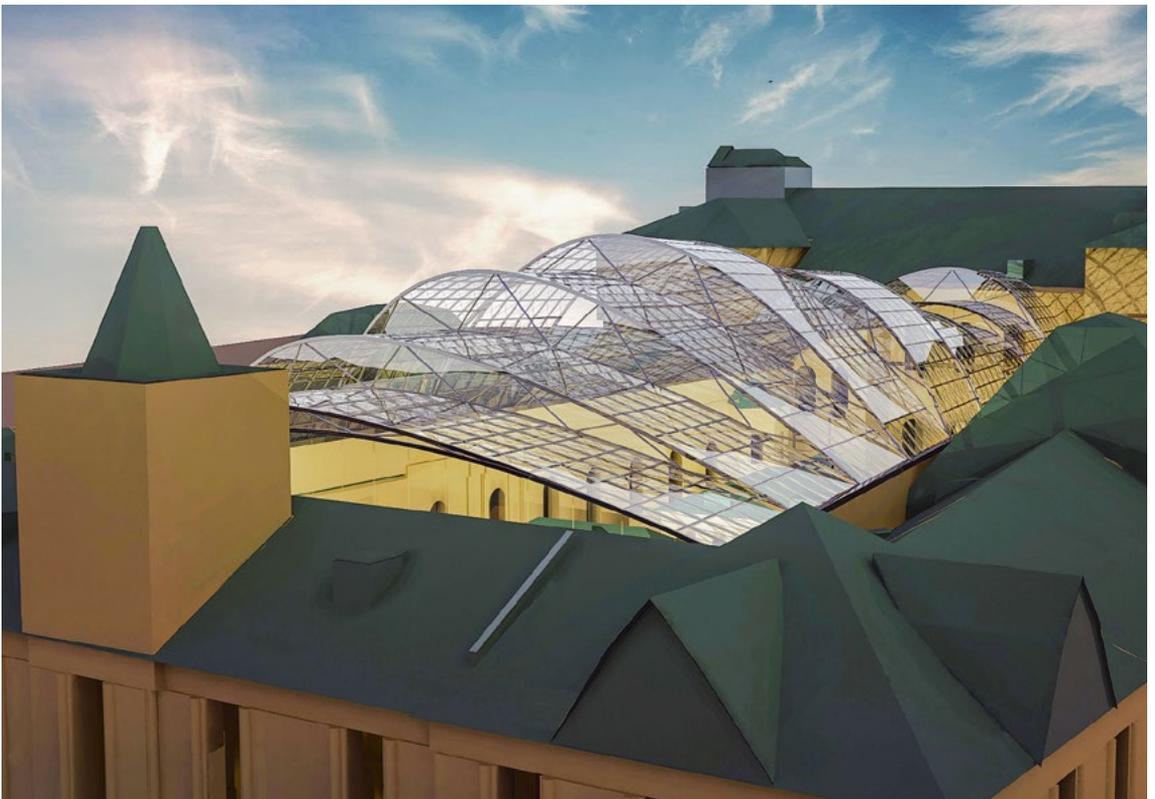
2

The museum park is funded by the government of Moscow. Overall cost of works on creating social space Park Museum comprises 831 272 487.88 rubles. Completion of the works is scheduled on September 1, 2017.

After tendering process, designing works kicked off to incorporate the ongoing city program My Street. Mosproekt 3 OJSC acts as the general designer.



1



2

ROOFING OVER THE NORTHERN AND THE SOUTHERN YARDS OF THE NEW POLYTECH

The dream of glass roofing over inner yards is an important part of the renovation, and it's currently coming true. Under the design of Japanese architect — Junya Ishigami, the museum will feature two more areas located outdoors.

The design was changing along the way: from Ishigami's initial proposal to make the roofing aerial and invisible to the idea of a superstructure creating a distinct point of focusing of nearly art object significance, and back to minimalist solution in a different embodiment.

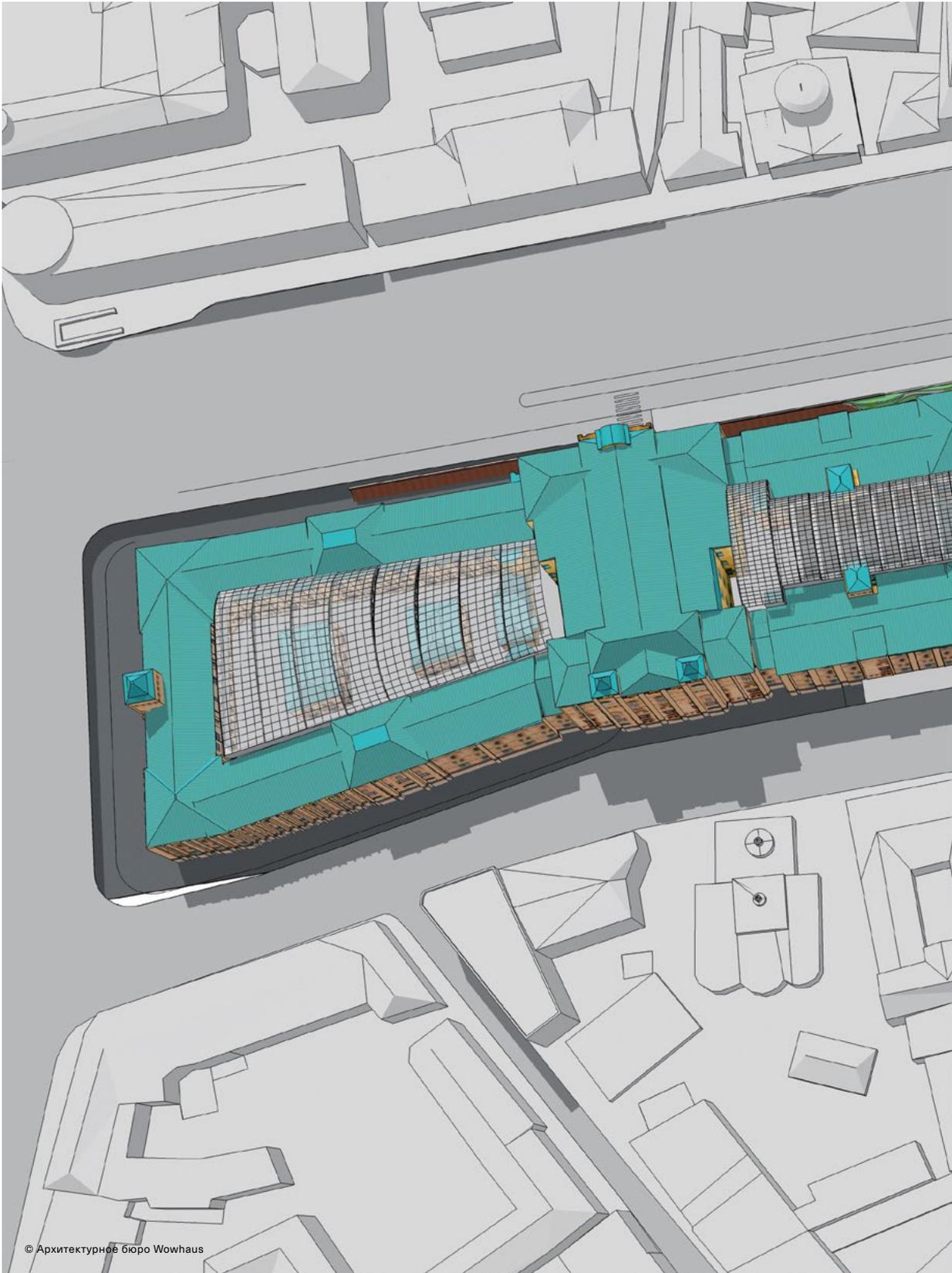
The initial idea could not be implemented due to climatic conditions of Moscow: the snow loads would cause criss-crossing the transparency with massive beams.

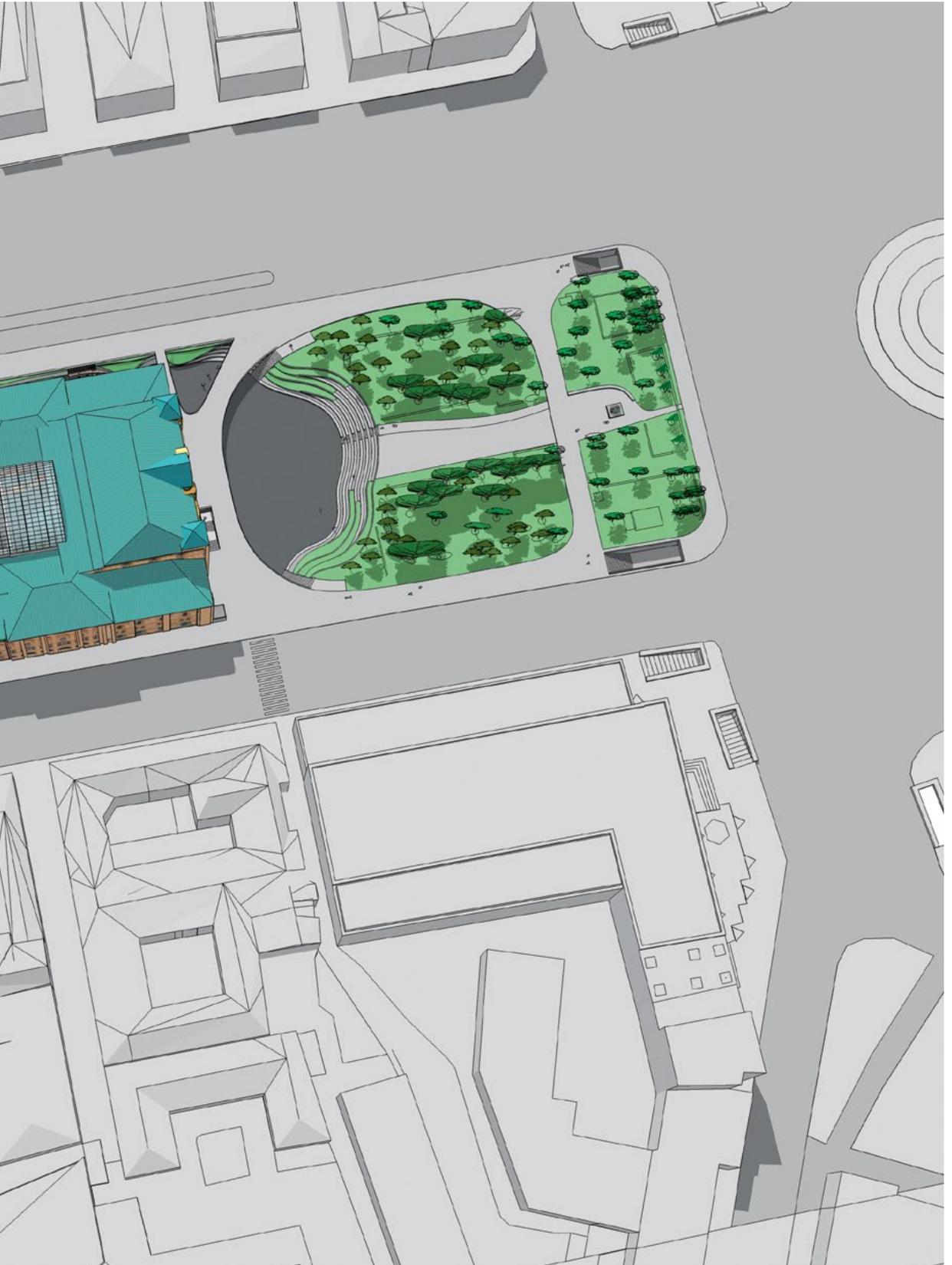
Then, architects Pavel Andreev and Santiago Calatrava joined the project, each of whom has his own vision. By the end of 2015, nearly a year after we started working with Germany-based company SBP, there have been several concepts on the table. One of them by Wowhaus seemed especially interesting: there

were futurist structures making the roofing a state-of-art and self-sufficing element. However, after a series of discussions with involved parties, including Ishigami, we chose a simple and minimalist solution — a structure of triangle-shaped glasses creating an aerial web effect.

The Northern yard's priority is its functionality. Herein, the roofing incorporates elements for hanging equipment and objects maintaining the operation in this multifunctional hall, thus enabling us to hold exhibitions, concerts and movie screening.

The Southern yard is intended for children. Herein, the roofing is more aerial and lightweight. It lacks any additional equipment. The structure creates a specific, even fairy-tale air in the yard. It is a city within a building. Still, the option of attaching equipment or objects to the load-bearing parts of the partitions retains.





POLYTECH AT THE VDNH

After we opened a platform at the VDNH in 2014, the Polytech has marked its presence in the traditional recreational areas of Moscow, in urban parks.

Spring 2014, pavilion 26 hosted exhibition “Rossiya Delaet Sama” (“Russia Does Itself”) dedicated to legendary Russian scientists of past and present, and their famous and unknown researches and developments. There are seven topics which are vital for modern-day science: Beyond the Earth, New Anthropogenesis, Counterparts of Nature, Illusions, Radio+, Core Energy, and Plasma Energy. Each part is built around a centrepiece from the Polytech’s collection, and tells the story of inventions and their influence on modern-day civilization.

In May 2015, Polytech opened a biohacking lab for children and adults. At Molecular Perfumer session, anyone may find out everything about smells: why they’re so important, or if it’s true that smells are important for choosing friends and partners. Participants learn to ‘catch’ smells in bottles, mix them, and create actual perfumes.

Pavilion 26 has become a host platform for other projects of the museum, from quests to festivals. However, it’s not the only point of contact between the Polytech and the VDNH: last year, we’ve held exhibitions in Karelia pavilion (*Inventing Bicycle, Aviation. The Dawn of New Era. Russia 1910–1935*) and Optics pavilion (*Alice in Scienceland*) .

1 VDNH, pavilion 26. Entrance to the exhibition “Rossiya Delaet Sama” (“Russia Does Itself”).

2 VDNH, pavilion 26. “Rossiya Delaet Sama” (“Russia Does Itself”), Plasma Energy hall.



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2

OPEN STORAGE OF THE POLYTECH

There are upwards of a hundred collections in the Polytechnic Museum, with some of them nationally or even internationally significant. There are over 233700 items at our disposal documenting evolution of science and technology. As of 2014, the museum's holdings are open to anyone.

By the end of 2013, the holdings were located in Technopolis Moscow at the area of 13500 square meters. The library holdings were located at the area of 4500 square meters. Adding renovation workshops, utilities center and staff premises, the Polytech occupied area comparable to the Red Square.

Museum holdings are usually closed. So, it's twice as disruptive that the idea of opening them originates from curators, who commonly aspire to keep prying eyes away from the collections. The project Open Storage of the Polytech allows visitors to see temporary warehouses of the museum and the mazes full of artefacts. Items include cameras and photographs, phonographs, gramophones, records, and other unique exhibits. None of

Moscow-based major museums have ever attempted to develop open holding formats, so the Polytech has become the first to do so.

In 2015, a public programme for Open Storage was developed. Apart from general excursion, it featured meetings with curators, so that visitors could know first hand how the collection had been formed, and hear stories from lives of the exhibits that changed the ways of scientific development.

Project dubbed School + Museum = Living Knowledge shows objects covered at lessons to schoolchildren, thus enhancing and supplementing their study programmes. Teachers may organize excursions on their disciplines.

As it turns out, conservative parts of museum may become a territory for a daring experiment. Thus, over the course of Museum Night 2015, Open Storage invited their visitors to play by roaming across the enormous area with exhibits in the dark, with only torches in their hands.

¹ Technopolis Moscow, Open Storage of the Polytechnic Museum.



NUMBERS

Replenishment of holdings	703 items
Storage, research, and preservation of items of the museum holdings of the Russian Federation	233 700 items
Renovation and conservation of exhibits and book artefacts	129 items
Items having undergone collection-wise collation of presence	230 103 items

LIBRARY OF THE POLYTECH

The Polytechnic library, or the Library of the Polytechnic Museum, is currently living in the most peculiar conditions than at any other time in its 150 years-long history. The holdings are located at Technopolis Moscow, all reader catalogues are packed, but modern-day logistics and information technologies make the library available to general public.

There is a reading hall, where one may get books and magazines. Additionally, last year featured additional services, like working at electronic reading hall of the Presidential Library without any need to go to Saint Petersburg for that purpose, and of the National Electronic Library. One could remotely order any book and use virtual reference guide Ask the Librarian prior to visiting the library. Our experts provide consulting for selecting books for a particular topic, and ask questions on history of science and technology. We accept orders and questions 24/7 without limitations.

The essential, fundamental and universal purpose of modern-day library is providing

information, which is totally required by both readers and the museum itself. Lots of exhibitions and inter-museum projects, description of museum holdings, scientific researches — it all starts at a library.

Finally, the most breathtaking and interesting thing for today is intense interaction between librarians and the holdings fund as the library commenced comprehensive research thereof. It includes its formation history, book signs of private collectors and organizations that had historically become its part, and unique autographs and inscriptions by outstanding scientists, engineers and architects. And certainly, there are books, some of which are bibliographic rarities, or monuments to inventions and discoveries. This way of working with holdings enhances its efficiency and kindles interest in readers.

BRIEF STATISTICS OF THE POLYTECHNIC MUSEUM'S LIBRARY

Overall holdings	3 512 091 items
including foreign documents	726 853 items
Exchange fund	37 626 items
Electronic catalogue span	193 985 records
New users	189

CONTENTS OF AVAILABLE HOLDINGS

(by types of publications):

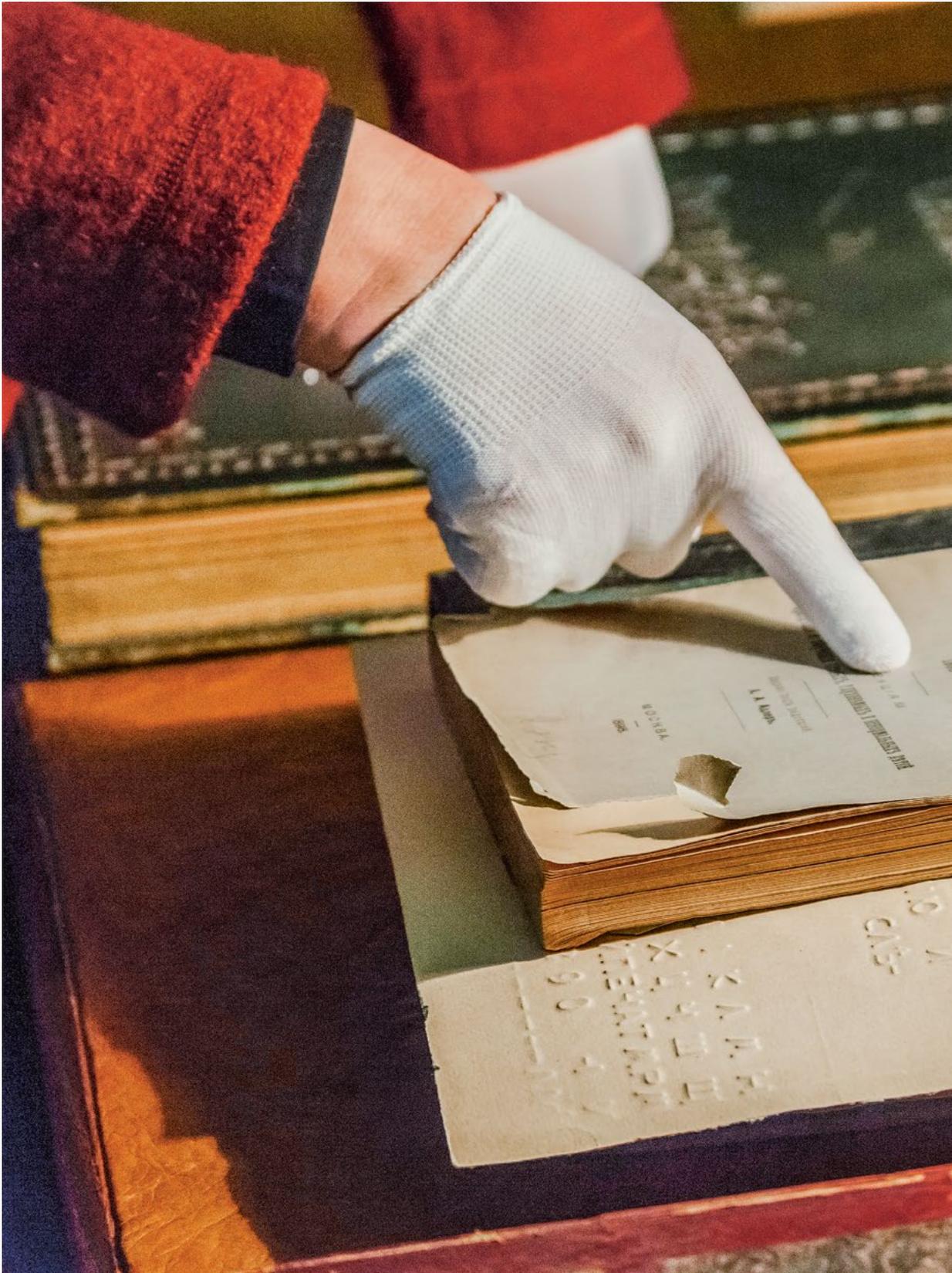
Books and brochures	1 724 622 items
Magazines	1 477 802 items
Specific kinds of technical literature and specifications	234 391 items
Deposited manuscripts	38 items
E-documents	567 items
New documents supplied	24 844 items
Conservation and restoration of documents	15 items

NUMBER OF ENQUIRIES WITH THE POLYTECHNIC MUSEUM'S LIBRARY

Overall number of visits to reading halls, events, and excursions	3 917
Remote enquiries	12 533

SUBSCRIPTIONS

Number of MBA and private subscribers	208
Documents provided	6 537 items
Bibliographic queries and consulting (including those for remote users)	1 691





POLYTECH ONLINE

The museum's website, polymus.com, has become the basic link for all the Polytech's projects for the time of renovation and modernizations.

As of March 2015, one may use our online services to buy tickets to exhibitions, pay for lessons at our Science labs, or buy subscription for the Children's University. Museum collections are also gradually becoming available online: we post nearly a hundred new items every month.

For three of our key exhibitions (*Alice in Scienceland*, *Animatus*, and *200 Keystrokes per Minute*), The Polytech festival, and the festival of films on science and technology 360° we've created separate promotion websites featuring reference guides and multimedia materials. Our newsletter audience exceeded 25 000 people by the end of the year.

The year 2015 has been plentiful in active and successful collaborations. We've made joint online projects with The Question (*1 million unique users a month with 6 million pages browsed overall*), Coub (*2 792 848 views*),

things.co (12 thousand unique users), Relikva (*35 thousand unique users*), and Bookmate (*4 300 000 unique users*). Additionally, in cooperation with Arzamas.academy we've prepared an educational programme.

There are upwards of 30 000 likes on the Polytechnic Museum's Facebook page, with over 500 000 people reached over the course of the year. Stars like astrophysicist Matt Taylor and biologist Olivia Judson recorded video addresses to our Facebook audience.

¹ Joint project of the Polytechnic Museum and *Things*, an online catalogue of anything.

200 keystrokes per minute x

https://things.co/200keystrokes

Portals

Things Search

Sign up for Beta Donate

Typewriters of the XX Century

Collection of 22 things from Moscow Polytechnic Museum

View on Timeline Sort by date modified Time range

 <p>1927 Underwood Standard Portable Typewriter by Underwood</p>	 <p>1935 Royal Model KHM Typewriter by Royal</p>	 <p>1902 Remington Standard No. 9 Typewriter by Remington</p>	 <p>1902 Braille Writer Typewriter</p>
 <p>1940 Toshiba 1400 FL Typewriter by Toshiba</p>	 <p>1978 Brother Super 7800 Typewriter by Brother</p>	 <p>1895 Remington Standard No. 6 Typewriter by Remington</p>	

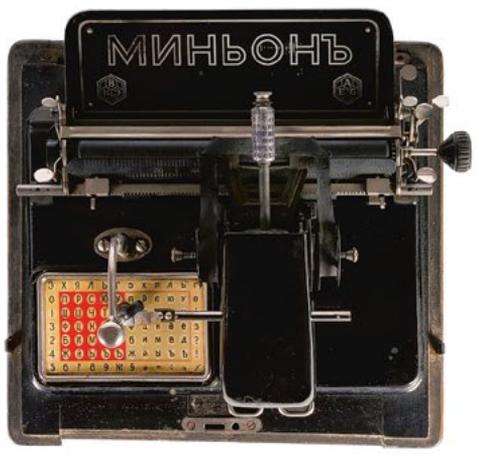
1913
Mignon Model 3
Typewriter

320 views

Date of appearance: 1913
Manufacturer: AEG (Allgemeine Elektrizitäts-Gesellschaft)
Made in: Riga

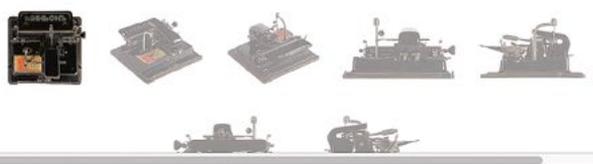
Dimensions: 350 × 220 × 330 mm
Weight: 8.68 kg
Colors: black

Description
For each type of roll belonged to a removable panel (letter box) with the available characters, which had to be clamped under a pointer in the Mignon typewriter. With his left hand, the pointer was passed over the character desired in each case. By coupled mechanics, the type roller sat with the corresponding mark on the paper. By pressing the button imprint with his right hand the type roller printed the sign on the paper. With a second button could a space can be achieved. In Model 4, which was built in 1924, still was added a backspace. When you press the Backspace key, the car was transported back to a writing step to correct can.



© Moscow Polytechnic Museum

#200keystrokes #polytech



LECTURE HALL OF THE POLYTECH

In 2015, the lecture hall of the Polytechnic Museum continued working across different platforms in Moscow with renewed format and expanded coverage of topics. An interesting intellectual history linked the Polytech with *The Prime Russian Magazine* and its contributors. Monthly lectures keep up with issues covered in the magazine. The list of the series's lecturers includes architect Maxim Atayan, orientalist Alexei Maslov, and others. Our cooperation with the Enlightener Awards, and lectures by its winners and nominees, is yet another example of successful transition from printed word to lecture format.

The discussion programme of the International film festival on science and technology 360° has become another success of the year. Stars like Rosetta mission specialist Matt Taylor came to read a lecture at the festival. In his keynote speech, he told the audience how to land a rocket on a comet.

In collaboration with Disney/Pixar, we've held a discussion on the nature of emotions at Polytech Festival. Featuring at the discussion

were Konsnantin Anokhin, neurophysiologist and head of neurological science at Kurchatov Institute, and Pete Doctor, Pixar Animation Studios VP and the director of *Inside Out*. "Who lives in your head?", a dialogue of major experts in different realms, has embodied the very spirit of the Lecture hall, where comprehension of complex phenomena emerges from inter-disciplinary interaction.

1 Who lives in your head?" lecture at Polytech Festival, 2015.

2 Matt Taylor, "Catch a Comet: the Rosetta Mission" at 360°.



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ACADEMIC AFFAIRS

9th International Scientific Conference on History
of Technology and Museum Business
December 1-3, 2015

The plenary session was held at the IEC museum; sectoral sessions on December 2 and 3 were held at the House of International Scientific Cooperation. The sectoral sessions' topics were as follows:

Museography

History of Technology

Source Studies for Museums

Industrial Legacy

Educational Projects in Scientific Museums

Participating in the conference were:

Museums	27
Educational and Scientific Centers	12
Enterprises	3

The conference was attended by 115 people overall, with 32 of them from the Polytechnic Museum.

Overall, there have been 104 speeches from twelve Russian cities, including 19 from the Polytechnic museum, and four from Latvia and Ukraine.

Moscow	80
Saint Petersburg	4
Samara	5
Kaliningrad	2
Kaluga	2
Volgograd	1
Irkutsk	1
Novosibirsk	1
Kovrov	1
Krasnoyarsk	1
Nizhni Novgorod	1
Taganrog	1
Latvia	1
Ukraine	3

Artefacts of Science and Technology in Russian Museums programme in 2015

Throughout the year, we have been discovering and organizing expert examination of technology items from 18 museums in nine Russian cities.

The meeting of the Expert Council reviewed 57 items on December 4, with the status of science and technology artefact assigned to 54 of them.

1279 items overall were assigned the status of science and technology artefacts.

54 research papers prepared by the museum's employees in 2015.

15 museum workers participated in nine science conferences, roundtables and seminars in Moscow, Saint Petersburg, Samara and Murmansk.

7 Museum were introduced to the programme:

-
1. Corporate museum of Technoproject LLC, St. Petersburg

 2. Museum of GNC RFFEI JSC, Obninsk (Moscow oblast)

 3. Museum of Printing Industry and Publishing of the Moscow State University for Printing

 4. Museum of Vintage and Classical Cars, Moscow

 5. Museum of Nuclear Weapons at RFYC VNIIEF, Sarov

 6. Museum of Radio LLC, Pereslavl-Zalesski

 7. Technical Museum, Nizhni Novgorod

REASONS FOR GRAVITY

Pavilion 26, VDNH

Spring 2015, exhibition Reasons for Gravity commemorating the 125th anniversary of diplomatic relations between Russia and Mexico kicked off at the VDNH. The project's history is peculiar: nine media artists and one researcher from Mexico were engaged in studying the phenomenon of gravity and faced the problem of finding a metaphor for what is known only to astronauts. They addressed different training facilities, and found what they needed in Russia. Autumn 2014, they've had a training flight onboard legendary IL76 in the Star Town. The experience of abandoning gravity and subsequent return inspired the experiment's subjects to create art objects: videos, photos, and art installations together shaping the Reasons for Gravity project. January 2015, the project was exhibited in Mexico city, and in Moscow in April.



1 Eternity in the Absence of Predestination by Ale de la Puente.

2 Waiting for the Unknown, multiple authors.



1

NEWTON'S LAWS ARE STILL WORKING, AND EINSTEIN'S THEORIES ARE VALID AS WELL, BUT WE DON'T KNOW IF THERE ARE GRAVITATIONAL FIELDS AND GRAVITONS, WHICH ARE ELEMENTARY PARTICLES MEDIATING THE FORCE OF GRAVITATION WITHOUT ELECTRIC CHARGE. GRAVITY IS A MYSTERY YET TO BE SOLVED, THOUGH EVERYTHING WOULD HAVE FALLEN APART WITHOUT IT.

ALE DE LA PUENTE

media artist, project contributor

THE POLYTECH FESTIVAL

VDNH, Industrial Square



50 000+ VISITORS
IN 2 DAYS

4 070 000 OVERALL
SOCIAL MEDIA
COVERAGE

35 PLATFORMS

60+ LECTURES

10+ TV REPORTS

120+ MEDIA MENTIONS

475 POSTS ACROSS
SOCIAL MEDIA

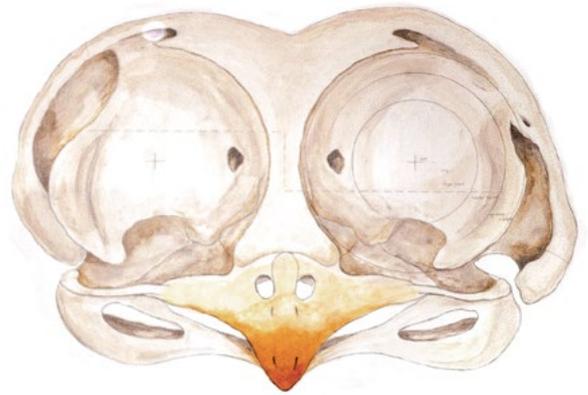
ANIMATUS

Gorky Park

May 21–September 27, 2015, Gorky Park hosted one of the most provocative interdisciplinary exhibitions of the Polytech, Animatus. The right-hand circumference of the central entrance featured works by Korean artists Hyungkoo Lee: 16 skeletons of animated characters made of aluminum rods, springs, steel wire, white resin and oil paint.

Lee invented his own special way of interacting with modern-day establishment. His works of Animatus series were first exhibited at Venice Biennale in 2007. The artist dared to work with artefacts of the audience most remote from arts by deconstructing and ironically reconstructing icons of pop culture.

Pseudo-scientific language of the artist in fact bases itself on purely scientific knowledge. Prior to creating the items, Lee studied anatomic textbooks on human body as cartoon characters are basically anthropomorphic and resemble humans more than rabbits, ducks, or cats.



1 Felix: House Cat (*Felis Silvestris Catus*).

2 Wile E. Coyotte (*Canis Latrance*).



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ALICE IN SCIENCELAND

Pavilion 64 Optics, VDNH

Summer 2015, the Polytech dared the risky diving into fairy tales by offering scientific metaphor interpretation of the book by Lewis Carroll.

It's a paradox: children are curious and open-minded, they're ready to learn new things and aren't afraid of experimenting, yet it's hard to make science interesting to them. Its scholar incarnation is dull and boring: it's unemotional, abstract, and hard to understand.

To thrash down this dangerous stereotype, the Polytech invited several young scientists of different scientific disciplines. Together we came up with how to tell Alice in Wonderland through the prism of science facts linking together both guises of Lewis Carroll / Charles L. Dodgson, a mathematician and a writer. We attempted to illustrate the course of thinking of real-life researchers encountering a miracle.

Five sections of the exhibition are inhabited by scientific attractions and interactive exhibits. The hall "Restless Universe: Transforming Space" featured

levitation, planets, stars, scales and dimensions. "The Wheel of Life: Transformations of Living Matter" featured evolution, turnover of matter and their natural interactions. "Rules of Metamorphosis: Measuring and Altering in Math" featured language depicting the world, topology, and transmutations. "When, Never and Whilom: Inconsistency of Time" featured biological and physical senses of time and time travel. "Surreal Reality: Paradoxes of Perception" featured the sixth sense (*proprioception*), illusions and emotions.

Alice in Scienceland wasn't just entertainment: it launched a mechanism of playing with science. We hope that not only children, but also adults with some unsolved childish questions could get rid of scientific contradictions through the game.

The exhibition went travelling across Russia, and has already come to Orsk and Ufa.

- 1 Rubber Math hall.
- 2 Cradle of Stars hall.
- 3 Solar System Neighborhood hall.



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2





AVIATION. THE DAWN OF NEW ERA. RUSSIA 1910 – 1935

Pavilion 67 Karelia, VDNH

Having devised the exhibition's concept, the museum referred to Farman airplane, as it is the incarnated spirit of aviation and quintessence of the dream of flying. We couldn't do without the help from Georgy Galli, aviation historian, and the country's most recognized expert in Farmans. Galli kindly provided one of three machines he had assembled. Right in the pavilion Karelia, we re-worked the airplane by replacing cloth and the motor. Amazingly enough, we discovered a set of drawings for this very model while researching at the Polytechnic library.

The exhibition featured four thematic sections. Birth of Aviation hall depicted the first instances of creating airplanes in Russia and other countries. Aviation of the Russian Empire hall featured the first Russian airplanes, namely Kudashev-1, Rossia-A and Russian Champion; as well as inventors and pilots, namely Y. Gakkel, P. Nesterov, S. Utochkin and K. Artseulov, and their heavenly records. The hall on the WWI and the Russian Civil War showed the first tries of using aviation for warfare. The fourth part

of the exhibition, Aviation of the Soviet Union, featured the work of first engineering boards and their experimental planes.

The exhibition enabled people of the 21st century to look in the past of aviation and collate their dreams of future with the dreams of those living a hundred years ago. Visitors could feel the anticipation of the aviation's early era. And it's not about just airplanes: the dream of flying and aspiration to overcome gravity remains the driving force for scientists even nowadays.

- 1 Aviation of the Soviet Union. Sections: Saboteurs of Former Intelligentsia Descent, and Helicopter CAGI-1-3A at Record-breaking Height.
- 2 Aviation of the Russian Empire, Section: Anniversary Flight of Utochkin in Odessa.
- 3 Aviation of the Soviet Union, Sections: Umberto Nobile's Expedition Saved, and Record-breaking Flight from Moscow to New York.
- 4 Aviation of the Soviet Union: Section: OSOAVIAKHIM.
- 5 Sergei Rykov, the exhibition's curator.



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2

едители из бывшей
еллигенции

... Лейтенант системы работы в конструкторской
делительности системы управления, обеспечивающей
достоверность информации и полноту
разнообразия информации...

03

Вертолет ЦАГИ 1-ЭА
на рекордной высоте
1932

Юбилейный полет Уточкина в Одессе 1910

Рождение военной авиации

Российская империя одной из первых официально исключила авиацию в состав армии. После поражения Первой мировой войны, авиация находилась в упадке и не получила должного развития в императорской армии. Часть элиты была вынуждена перенести на развитие военной авиации. 30 января 1909 года был создан Отдел военного флота Российской императорской армии.

Покровителем военных летчиков был адмирал Арминистратив Михаил

«И произошла война на Небе: Михаил и Ангелы его воевали против дракона, и дракон и ангелы его воевали против них, но не устояли, и не нашлось им места на Небе».

(Исавия 7-8, 12)

3 июля 1910 года пионер российской авиации Сергей Уточкин совершил первый по счету полет на своей личной машине в Одессе. Вскоре полет был признан и проведенный тогда в городе художественно-промышленной выставке, на которой демонстрировалась последние достижения индустрии и искусства. Разогнавшись на аэроплане, Уточкин взлетел и совершил три круга над Одесской гаванью на своем «Фабрикане». Событие вызвало такой восторг среди одесситов, что весь вечер был заполнен гудками содрогания. Кавказ это, Уточкин заявил: «Мы только начинаем и уже полетим по всему миру, а упаду на север или юг».



История Уточкина

Сергей Уточкин увлекся спортом с самого детства и стал, пожалуй, самым известным спортсменом Российской империи. За свою жизнь Уточкин перепробовал десятки видов спорта, добавив к успеху почти в каждом из них. Он с удовольствием занимался в Одессе в соревнованиях по конной езде, бегу, теннису, фехтованию, гребле, плаванью, броску и борьбе. Самостоятельно построил яхту, участвовал и любил в регат, занимался джигитовкой, охотился рогатые олени, а также стал одним из первых изобретателей



3



4



5

CONSTRUCTIVELY, AIRPLANE CHALLENGES THE PRINCIPLES OF A FLYING APPARATUS'S RELIABILITY WE GOT ACCUSTOMED TO. WHATEVER THE MOTOR FRAME MAY BE, IT'S HARD TO IMAGINE THE FEELINGS OF PILOTS AND PASSENGERS AT THE HEIGHT OF SEVERAL HUNDRED METERS. PERHAPS, THE DESIRE TO FLY AND THE SENSATION OF FREEDOM THAT DROVE THOSE PEOPLE ARE WHAT WE CURRENTLY LACK. WHILE BUILDING AN AIRPLANE, MY PERCEPTION OF AVIATORS AND ENGINEERS OF EARLY 20TH CENTURY HAS CHANGED AND BECOME STRAINED REINFORCED BY MY PERSONAL INVOLVEMENT. I BUILT AN AIRPLANE TOO. MY DREAM'S COME TRUE.

SERGEI RYKOV

curator of Aviation. The Dawn of New Era. Russia 1910 — 1935

200 KEYSTROKES PER MINUTE

MMOMA, 25 Petrovka, Moscow

Technical items we use or had earlier used in our routine operations rarely becomes an object of culture studies or serious reflexion. Still, that's what justified the proposal to study the typewriter phenomenon from Anna Narinskaya, journalist and literary critic.

Using collections from the Polytech and other museums, referring to the literary legacy, memoirs, and archives, the initiator and head curator of the exhibition depicted a historical drama on Russian literature's trials in the 20th century. Through the objects, visitors could get in touch with writers, oppressed or praised; with banned and miraculously saved manuscripts that later became classics; with fates of typists who were the muses and the first editors involved in writing process. Those stories all involve typewriters.

The Polytechnic Museum provided its collection of typewriters. Adding to the composition, documents, manuscripts and modern art objects (from Dmitri Prigov's and Ilya Kabakov's sketches to orchestrated video

project by Alexei Aygi) entwined with the exposition.

Parallel programme of the exhibition featured lectures like "Brain: from Typewriter to Computer" by Tatiana Chernigovskaya, and "Unfinished Play for a Typewriter" by Denis Boyarinov, as well as series of poetic readings dubbed Typewriting. Audience could hear Sergei Gandlevski, Alexandra Schilayeva, Maria Galkina, Nikita Sungatov, and Ekatherina Sokolova reading their works.

200 Keystrokes per Minute won a diploma at international festival Intermuseum 2016 as the best project on presentation and interpretation of material and non-material cultural legacy.

- 1 Entrance zone: Typewriter as an object of Design and Technology.
- 2 History of original typewritten manuscripts of legendary works.
- 3 Typewriter and Literature: Russian Writers of the 20th Century and Their Typewriters.
- 4 Maria Skripalschikova, coordinator of 200 Keystrokes per Minute.







4

TO ME, 2015 HAS BECOME THE YEAR OF TYPEWRITER AND ITS IMPORTANCE IN PEOPLE'S LIVES, WHETHER THEY WANTED THAT OR NOT. I GOT ACQUAINTED WITH NEARLY 104 PEOPLE, ONE CAT AND ONE DOG. THREE OF THOSE PEOPLE AND THE DOG HAS BECOME MY FRIENDS. WHILE PREPARING THE EXHIBITION, I'VE MADE 1 083 765 STEPS DURING 167 HOURS AND 22 MINUTES AT AVERAGE SPEED OF 4.6 KMPH. RIGHT, THE DISTANCE! IT WAS 758.6 KM. I KNEW 200 INTERESTING FACTS ABOUT THE EXHIBITS. IN FACT, I COULD WRITE A BOOK ON THAT.

MARIA SKRIPALSCHIKOVA

coordinator of 200 Strokes per Minute

ENLIGHTENMENT CENTER OF THE POLYTECHNIC MUSEUM AND THE MOSCOW STATE UNIVERSITY

In 2014, the Development Fund of the Polytechnic Museum ordered Itaila-based consortium MASSIMILIANO FUKSAS Architetto and Russia-based award-winning SPEECH to develop a concept drawing, technological solutions for designing, and to start preparing whitepapers.

The technical customer, Polytech engineering ANO UC, has gathered the required initial data and obtained info on preliminary specifications.

In 2015, the facility was included in the developed and approved layout of the new MSU area.

In 2016, development of the design documents will continue. We plan to obtain certificates of state expert examination and an approval for development works.



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2



3

INCUBATOR



AREA FOR THE NEW

- 56 **Master's Program on Applied Culture
Studies at the Higher School of
Economics**
- 60 **Children's University**
- 64 **Scientific Battles of Young Scientists**
- 66 **Electronic Living Room**
- 68 **Science Labs of the Polytech**
- 72 **Books of the Polytech**

One of the Polytech's institutional purposes is creating infrastructure and nutrient environment for intellectual development, cooperation, and embodiment of interdisciplinary concepts, including those within Polytech.Science.Art and Electronic Living Room programs.

The ideas become projects, the projects expand and evolve, and quite often, while born at the Polytech, they later have their own independent lives.

Science battles provide a platform for young scientists. Adolescents try themselves in curating, managing museums, and performing art as a part of the SKVT project. Beginner museum workers have their master's degree from top European experts.

To our reckoning, this kind of activity is an important component of any 21st century museum and its global social function.

MASTER'S DEGREE ON APPLIED CULTURAL STUDIES AT THE HIGHER SCHOOL OF ECONOMICS

Modern-day museum requires modern-day specialists, speaking languages of both collections of the past and multimedia projects of the future, concentrated, fearless, having their own visions, and capable of kindling interest in average visitors with their ideas.

Under the auspices of Vladimir Potanin's Charity Fund, the Polytech implemented an add-in for applied culture studies programme at the Higher School of Economics.

In years 2015 and 2016, the programme that had initially consisted of three experimental courses on museum business, curatorship in modern-day museums, and museums in the digital era, incorporated four more: Management of Cultural Institutions and Museums, Museum Project, Museum Audience Research, and Affordable Museum.

The project was developed by experts of the Polytechnic museum, lecturers from the Higher School of Economics, and foreign specialists — world-class professionals from the UK, Germany, Netherlands, Spain, Japan, Greece, Israel etc. The most crucial

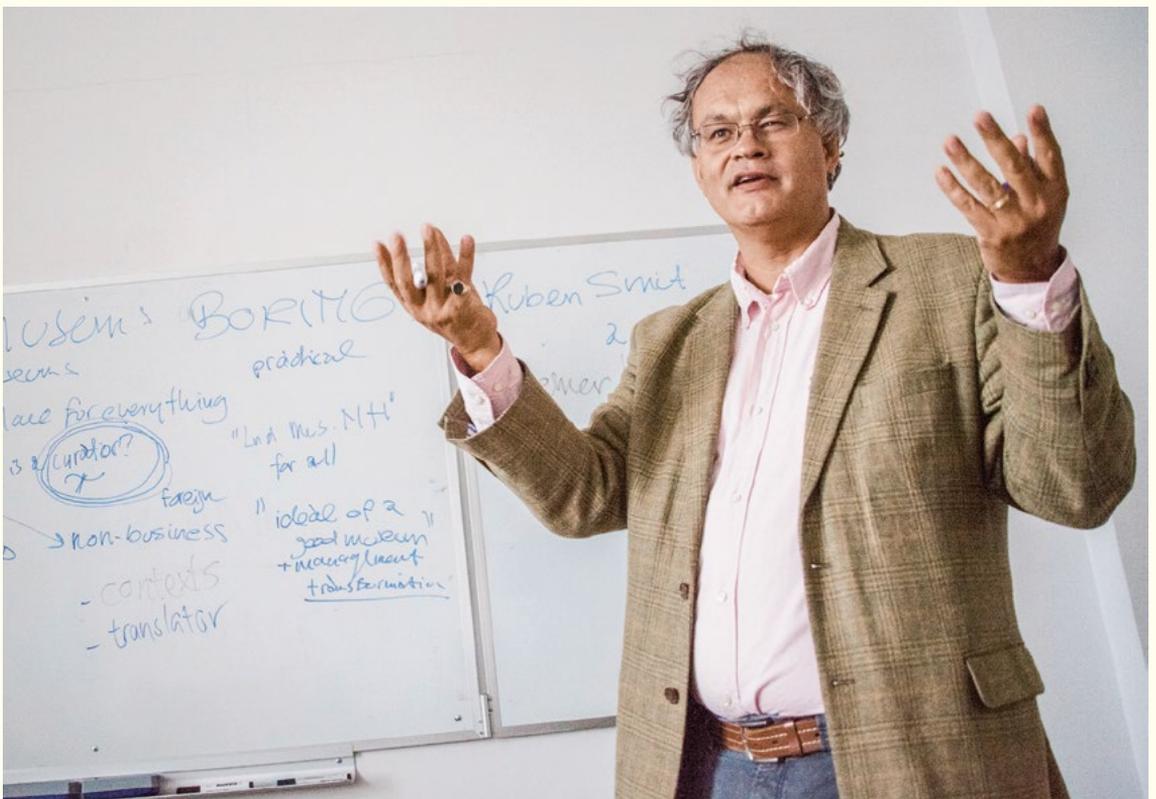
collaboration with Reinwardt Academie (*Netherlands*), the basic ICOM partner, featured development of educational programs for museum specialists.

Under the programme's auspices, the Polytech runs open lectures by museum experts from around the world. In 2015, we brought to Moscow Graham Black of School of Arts and Humanities, Rimer Knoop of Reinwardt Academie, Duncan Dornan of Glasgow Life, and others.

- 1 Rimer Knoop, lecture on Museum Business at the Higher School of Economics.
- 2 Ruben Smith, seminar on Museum Business at the Higher School of Economics.
- 3 Lidia Lobanova, public lecture on Social Media and Attraction of New Audiences at the European Museum and Center for Tolerance.
- 4 Mar Dixon, public lecture on Social Media and Attraction of New Audiences at the European Museum and Center for Tolerance.



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2

A MODERN-DAY MUSEUM SPECIALIST HAS TO WORK IN A CONTINUING REGIME OF SWITCHING FROM COLLECTIONS, WHICH ARE THE CORE OF MOST MUSEUMS, TO THE CHANGING REALITY. WE HAVE TO PROACTIVELY DEVOUR TRENDS FROM BOTH CULTURAL ENVIRONMENT AND SCIENCE, TECHNOLOGY, BUSINESS AND SO ON. OR, EVEN BETTER, WE SHOULD SHIFT TO A DIFFERENT LEVEL, WHERE WE COULD PREDICT AND CREATE THE TRENDS ON OUR OWN.

LIDIA LOBANOVA

curator of the programme





4

HOW CAN WE CREATE SPECIALISTS THAT ARE TRULY NEEDED IN TODAY'S MUSEUMS? WE SHOULD GIVE THEM A CHANCE TO FIND OUT WHAT THEY WOULD ACTUALLY DO WHEN THEY COME TO WORK AT A MUSEUM. WE SHOULD INTEGRATE THEM IN MUSEUM'S ACTIVITY DURING THEIR STUDIES. BEGINNER SPECIALISTS SHOULD KNOW NOT JUST THE BASIC OF LEGACY PRESERVATION, MANAGEMENT, AND EDUCATIVE TECHNOLOGIES. THEY HAVE TO LOOK CLOSELY AT WHAT'S HAPPENING IN THE SOCIETY, AND HOW PEOPLE AND THEIR BEHAVIOR CHANGE. THERE SHOULD BE MORE INTERPRETATIONS OF COLLECTIONS AND MORE STORIES, NOT FACTS.

MAR DIXON

blogger, coordinator of international online projects ([#AskACurator](#), [@CultureThremes](#)) and new format conferences (*MuseoMix* and *MuseumCamp*).

THE CHILDREN'S UNIVERSITY

This Polytech's project is for children who feel that their regular school programme doesn't suffice. There are lectures, workshops and enlightenment lectures by scientists, university professors and experts of various background held at auditoriums of Moscow's leading universities, including the Higher School of Economics, National University of Technology, and Moscow Pedagogical University. Children not only gain knowledge, but also enjoy the university spirits, and therefore, get mature.

In the beginning of academic year 2015, the team of Children's University went to Saint Petersburg to meet with their Polish colleagues. The journey resulted in creation of an enthusiastic group that launched St. Petersburg Children's University in November 2015. There are two directions there so far: Impulse for students of 8 and 9 years old, and Dynamics, for those of 10 and 11 years of age.

The Moscow University also gained a new direction, Energy, with the youngest target audience of 6 and 7 years of age. Lectures have a format of scientific show, enabling children

to gain knowledge while communicating and playing freely. Lots of interesting people attended the project, including science journalist Asia Kazantseva, architect Daria Paramonova of Strelka Institute, psychologist Maria Falikman of the MSU, and journalist Svetlana Reiter. All of them spoke to the children about very serious and adult issues, but it was interesting and comprehensible, without unnecessary simplification or diving into casuistry.

- 1 Awarding Children's University certificates.
- 2 Doors Open Day at the Children's University.
- 3 Graduation Prom of the Children's University, summer movie theater Pioneer in Gorky Park, June 2015.



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SCIENCE BATTLES

In 2015, in cooperation with Mayak radio station, we launched a radio version of science battles. The show is on air once a week. Therein, young scientists meet live, tell about their research, and listeners choose the most eloquent, charismatic and convincing participant.

TV channel Science 2.0 airs a show titled There's an Idea: the editors of the channel don't miss a single Science Battle, and select the most interesting participants to speak on television.

In autumn, the Lecture Hall featured a series of interdisciplinary discussions titled Club of Unsolved Questions and Science Battles. It's focused on problems and phenomena interesting for scientists of different disciplines. Physicists and mathematicians speak about time, while physiologists and roboteers cover the issues of intelligence.

1 Valeri Sobolev, scientific center for neurology at the Academy of Medical Sciences, Brain Studies department, Functional Morphochemistry lab. The second Science Battle at Museon Park.

2 Lyudmila Legostayeva, FGBNU NCN, department of anaesthesiology, reanimation and intense care. The fourth Science Battle at Digital October.



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ELECTRONIC LIVING ROOM

The Polytechnic Museum's Electronic Living Room opened in VDNH Pavilion 26 on the Museum Night, May 16, 2015.

The Polytech provided the living room to progressive audiovisual artists and electronic musicians as a multifunctional art space. It was a pure experiment. The project has attracted and consolidated people related to media arts, music, development and creation of technological products, and modern researchers of interdisciplinary practices. Nowadays, the living room is a platform for communication, concerts, meet-ups, collaborations, and work on new projects under the museum's auspices.

In less than a year, the Electronic Living Room was attended by researchers, musicians, and artists from different countries. It also hosted the International Festival of Modern Music and Media Arts MIGZ.

1 Moscow-based electronic musician Andrei Orlov.

2 Grand opening of the Electronic Living Room.



SCIENCE LABS OF THE POLYTECH

The main idea behind the project is to give children an opportunity of engaging in STEM disciplines with pleasure, following from exciting lab practices to theory, which becomes way more comprehensible in that case.

Lab lessons are held by young scientists. Usually, it is a game format, with any experiments most welcome. Robots, nearly-real dinosaurs, and bottles with mysterious substances act as demonstration aids. One may see a colony of leaf-cutting ants, giant Hercules beetle, hermit python, golden-dust geckos, and transgene fish GloFish. Those and other fauna representatives attended the Science labs in 2015. Some of them were just guests, while others stayed there to live and work.

In 2015, Science labs started working with adults by launching dedicated courses on physics and 3D designing.

1 Lesson at the chemistry lab.

2 3D New Year party at Science labs.



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BOOKS OF THE POLYTECH



Our publishing programme featured translations of scientific bestsellers, perfectly illustrated popular science books for children, and almanacs on technology history and museum

business. We cooperate with Russia's leading publishers to reach our common goal of promoting science.

LIST OF BOOKS PUBLISHED IN 2015

The Innovators. How a Group of Hackers, Geniuses, and Geeks Created the Digital Revolution	Walter Isaacson AST: CORPUS, 2015
Science on the Loose: Amazing Activities and Science Facts You'll Never Believe	Helaine Becker Mann, Ivanov & Ferber, 2015
What World Will We Live In Tomorrow?	Luke Iaddaden Clever Media Group, 2015
History of Technology and Museums: Materials of the 8th International Scientific Conference, December 2 to 4, 2014, 7th issue	The Ministry of Culture of the Russian Federation, The Polytechnic Museum, IET RAN, 2015
Calendar of Important Dates in Science and Technology, 2016	The Polytechnic Museum, 2015
Bookplates from the Collection of the Polytechnic Library. Book One: Libraries of Russian Institutions and Entities: an Illustrated Catalogue	Compiled by O. Pleshakova The Polytechnic Museum, 2015
What If?: Serious Scientific Answers to Absurd Hypothetical Questions	Randall Munroe AST, 2015
Under Water, Under Earth	Alexandra Mizelinska, Daniel Mizelinski Samokat 2015
Artefacts of Science and Technology in Russian Museums: an Album. 5th issue	Edited by B. Saltykov The Polytechnic Museum, 2015
Stars: A New Way to See Them	Hans Augusto Rey Pink Giraffe, 2015
Typological schematics for description of time gauges in Russian museum item passports: methodological recommendations	Compiled by T. Fokina The Polytechnic Museum, 2015

EXPERIMENT



76	Youth Programme SKVT
78	Outdoor Polytech Camp
82	Bordering on Fantasy
84	360° Film Festival
86	Sputnik Volunteer Card

The Polytech is by all means the territory of experiments. We interact with different audiences, try different languages and channels of communications, including those unusual. There is no direction that seems too dangerous to us, be it festivals and workshops on science art; lectures and concerts to study the connection between music and technology; outdoor science camps for children; or biohacking lab. There are dozens of projects we're currently working on. Additionally, the Polytech team experiments with more traditional formats not to let them become stiff and lose a speck of their energy.

A good example here is transformation of film festival 360° in 2015. Initially, it's been just screening of scientific films intended mostly for professionals. By expanding the borderlines and covering technology, the festival now faces wider audiences. Movies here is essentially a language, not a goal in itself. Today's mission of 360° is to inspire, kindle interest for science and technology, raising questions and bringing them to open discussion in dedicated programmes, and bringing worldwide science stars like Matt Taylor, the festival's first keynote speaker, to the audience.

YOUTH PROGRAMME SKVT

SKVT is a team of incentivized kids of 14 to 18 years of age having artistic freedom and ready to offer new ideas to the museum. They embody the ideas and acquire skills in designing cultural events under the auspices of the Polytech. The programme was launched autumn 2014, and since then upwards of 30 adolescents participated therein.

They learn to be independent and put their thoughts to practice. They curate events, act as moderators, and individually promote their projects. They meet representatives for other youth initiatives and museum professionals.

In 2015, SKVT came up with and held two quests on “Rossiya Delaet Sama” (“Russia Does Itself”); tried themselves as museum guides, visited the Polytech’s Storage and the Children’s University. They cooperated with the museum’s partners: they shot a video on useful reading for Mann, Ivanov & Ferber publishers, organized a series of thematic film screenings with guest scientists and young filmmakers.

May 2015, over the course of a roundtable at Intermuseum, they communicated with other Moscow-based adolescent projects.

Results of the first SKVT year were demonstrated at the Polytech Festival. In cooperation with interactive music platform Playtronica, Britain-based inventor of Mogees Bruno Zamborling and singer Jekka they directed a performance titled Plane Orchestra. Young poets from SKVT’s new direction, a poetic studio run by Andrei Rodionov and Ekatherina Troyepolskaya, also contributed to the festival. Today, the poetic studio’s attendees are actively engaged in the city’s cultural life.

1 VDNH, Pavilion 26, SKVT space.

2 SKVT team at the Polytech Festival 2015.



1



2

OUTDOOR POLYTECH CAMP

80 children, 14 adults, 9 days at artistic mansion Guslitsa, and 6 projects on archaeology, chemistry, physics, architecture, biology, and sonic design, plus usual summer activities like games, sport, camping and bathing.

Architects built a tree house, archaeologists studied excavations, physicists developed a radio network for the entire camp, chemists extracted natural colourants and illustrated a book, biologists shot a popular science documentary, while sonic designers created a programmable sonic machine.

1 Ivan Bogantsev, director of the camp, speaks to archaeologists excavating an ancient village.

2 Art mansion Guslitsa.

3 Chemists creating an art object using colourants extracted from the environment.





2

THE PROJECTS WERE ARRANGED JUST LIKE IN ADULT WORKING LIFE: SIGNIFICANT RESOURCE LIMITATIONS (IN TERMS OF BUDGET, MATERIALS, TOOLS, AND TRANSPORTATION), A TEAM FEATURING VERY DIFFERENT PEOPLE (ALL GROUPS HAD PEOPLE OF DIFFERENT AGES AND GENDER), AND DEADLINES THAT COULDN'T WAIT UNTIL TOMORROW. IT TURNED OUT THAT SCIENCE WASN'T MERE FORMULAE, BUT ALSO WAGONS WITH SOIL YOU HAVE TO CARRY UNDER A POURING RAIN, IF YOU'RE AN ARCHAEOLOGIST, OR OVERNIGHT EDITING OF A FILM, SAVING A SONIC MACHINE FROM A SHOWER, AND THE FEELING OF A COMMON GOAL.

MASHA ROMANOVA

the camp's curator





BORDERING ON FANTASY

November 2015, the museum presented an installations exhibition titled *Bordering on Fantasy* at book fair *Non/Fiction*. The exhibition is the fruit of cooperation with students of the Higher School of Economics School of Design. The Polytech granted the young designers access to their holdings and allowed them to see books with unique engraving and litographs, astonishing fonts, paper and cover designs with their own eyes.

Together with museum workers, the students devised and developed the exhibition's idea which focused on science fiction. Having selected the appropriate books, namely *Neznaika on the Moon*, *Monday Starts on Saturday*, *20 000 Leagues Under the Sea* and others, they started the work that became a workshop of exhibiting and showed them the entire process, from the concept to the implementation and presentation of ready objects.

After presenting at *Non/Fiction*, the installations started their journey to Moscow's libraries.

¹ Installations on *Monday Starts on Saturday*, *Neznaika on the Moon*, *The Head of Professor Dowle*, *Popular Astronomy* by Camille Flammarion, *Zoology* by Anatoly Bognanov, *Traité de la Lumière* by Huygens, and *20 000 Leagues Under the Sea*.



FESTIVAL 360°



9 FESTIVAL DAYS
6 PLATFORMS
7 000+ ATTENDEES
26 FILMS
44 SCREENINGS
250 000+ WEBSITE
VISITORS
140+ MENTIONS IN
THE MEDIA
10 LECTURES
3 Q&A SESSIONS

SPUTNIK VOLUNTEER CARD

Museum volunteering is a Western tradition successfully borrowed by many Russian institutions. There are 200 volunteers working for various projects of the Polytech, like “Rossiya Delaet Sama” (“Russia Does Itself”) or the Children's University, where their duties stretch from demonstrating experiments to

accompanying children to lessons. They care about animals at science labs, consult visitors at Alice in Scienceland, checked tickets, solved minor technical problems, helped over the course of campaigns, and altogether carried the project on their shoulders.

VOLUNTEERING TO ME IS AN OPPORTUNITY TO CHANGE THE ENVIRONMENT AND MY COURSE OF ACTION, TO BE IN THE MIDDLE OF THINGS, STAY IN TOUCH WITH MY GROWING UP SON, WHO IS A FAN OF SCIENCE BATTLES, AND SHARE MY PROFESSIONAL SKILLS AND KNOWLEDGE. IT'S AN OPPORTUNITY TO MEET AMAZING PEOPLE, AND ANOTHER REAL LIFE I CAN LEAD IN PARALLEL AND BE PROUD OF.

OLGA GEORGINOVA

volunteer of the Polytechnical Museum, therapist

VOLUNTEERS ARE THE MOST LOYAL PART OF THE MUSEUM'S AUDIENCE WILLING TO SHARE ITS VALUES AND PERSONALLY BROADCAST THEM. THANKS TO THAT, THERE IS AN INFORMAL INFORMATION FIELD MAKING THE MUSEUM A PLACE SIGNIFICANT FOR THE CITY AND IMPORTANT FOR ANY FAMILY, RATHER THAN A DRY STATE-RUN INSTITUTION TITLED MUSEUM FGBUK.

ALEXANDRA KOPERNIK

the programme's curator

Volunteering programme of the Polytech and the Sputnik card are an attempt to form that kind of field around both the Polytech and the museum community in general.

A student who came to undergo internship or volunteer, may not only have a good time, communicate and attend the museum's exhibitions for free, but also educate themselves. The Polytech took specific care of that: in 2015, in cooperation with Moscow's main museums, we've developed Sputnik card.

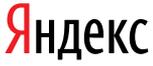
The card bears the holder's name and allows the owner to visit museums and exhibition platforms of Moscow, including MAMM, MMOMA, Garage Modern Art Museum and others with no fees charged. Sputnik card is the expression of our gratitude to volunteers for their work and their interest for the museum's life.



PARTNERS

We're happy to cooperate with diverse institutions. The list of the Polytech's partners includes international organizations, IT companies, art studios, embassies, platforms, funds and universities. In cooperation with the Embassy of Mexico we've held exhibition *Reasons for Gravity*; a discussion featuring Pete Docter at the Polytech Festival in cooperation with Disney/Pixar. Our initiatives are supported by Vladimir Potanin's Charity Fund, the British Council, and EUNIC. We have joint projects with Visual Science and Rostekh. Dima Barbanel's Workshop is currently refining the museum's visual identification.

These are only a few examples. We appreciate everyone we had been lucky enough to work with, and we know for sure: there are lots of daring ideas we will put to practice in future.



Kingdom of the Netherlands





THE PROJECT DEVELOPED BY THE TEAM
OF THE POLYTECHNIC MUSEUM

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