

NAPARSTNICA PURPUROWA

Digitalis purpurea



mikroskopowo 4000x
20 µm

NAPARSTNICA PURPUROWA

*Digitalis
purpurea*

Ważne informacje: Naparstnik purpurowy jest rośliną trującą. Wszystkie części rośliny, w tym kwiaty, są silnie zatrujące. Zawiera on glikozydy narkotyczne, które mogą wywołać poważne skutki zdrowotne, w tym zaburzenia rytmu serca i ciśnienia krwi. Roślina ta jest często wykorzystywana do produkcji narkotyków, takich jak belladonna. Należy unikać kontaktu z rośliną i jej kwiatami, szczególnie w przypadku dzieci i zwierząt domowych. W przypadku podejrzenia zatrucia należy niezwłocznie skontaktować się z lekarzem.

PODADRYCZNIK POSPOLITY

*Agrostis
perennis*

Ważne informacje: Podadrycznik pospolity jest rośliną trującą. Zawiera on glikozydy narkotyczne, które mogą wywołać poważne skutki zdrowotne, w tym zaburzenia rytmu serca i ciśnienia krwi. Roślina ta jest często wykorzystywana do produkcji narkotyków, takich jak belladonna. Należy unikać kontaktu z rośliną i jej kwiatami, szczególnie w przypadku dzieci i zwierząt domowych. W przypadku podejrzenia zatrucia należy niezwłocznie skontaktować się z lekarzem.

GWIAZDNICA POSPOLA

Stellaria media



MYSTERIES OF POLLEN

temporary exhibition for rent

Idea of the exhibition

"Mysteries of pollen" is an exhibition whose heroes are plants, pollinators and pollen, which we show as 3D models.

Nature can be viewed on a macro scale - globally and locally. We approached it as close as we were allowed by modern technology.

We usually don't focus on what we can't see, so the exhibition reminds us that life also goes on in micron dimensions.

Although it is not visible to the naked eye, it is important not only for various ecosystems, but for all the Earth's inhabitants at all scales.

The role of the pollen grain is to cause the plant to bear fruit. We do not realize how complicated and full of pitfalls leads to this path. We want to show it explaining what pollen is and what it looks like in a close approximation.



Idea of the exhibition



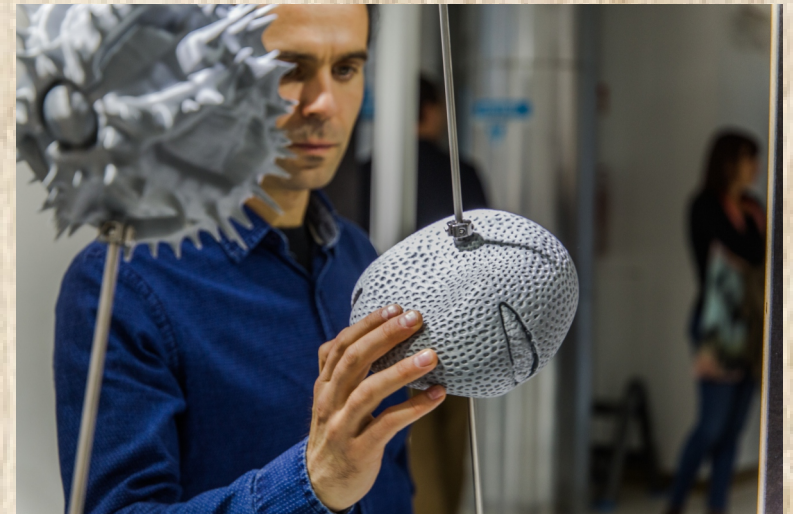
The aim of the exhibition is to change the awareness of man - the biggest destroyer of the environment and at the same time the most influential potential defender of it. We would like through an understanding of the mechanisms governing the plant reproduction, man will choose the latter role. Expanding knowledge of the role of insects and the need to their protection is a key goal in the pursuit of to balance nature.



Feel, touch, perceive the extraordinary beauty of the micro world

Uniqueness of the exhibition:

- World's first exhibition showing pollen shapes on SEM images and in the form of three-dimensional models
- Graphically explains the mechanism of pollination
- Allows you to understand the relationship between pollinators (insects) and the formation of fruit and the extension of plant species
- Explore it by sight, hearing, touch and smell
- Accessible to people with disabilities, especially for the blind





Mysteries of pollen



By visiting the exhibition you will learn:

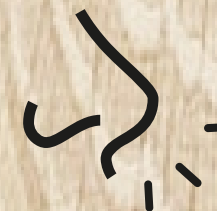
- What are the differences between flowers?
- How many pollen grains is a flower capable of producing?
- What shapes do pollen have?
- Do insects use plants, or do plants manipulate insects?
- Do plants create strategies to extend the species?

Mysteries of pollen



The exhibition affects almost all senses:

- Photographs and descriptions are presented
- 3D models of pollen can be touched and viewed
- You can smell the plants
- The exhibition is accompanied by a soundscape created of unusual sounds of nature





Exhibition in numbers



ŚWIERK POSPOLITY

Picea abies



powiększenie 6750x 50 µm

Mysteries of pollen include:

- 20 pollen 3D models
- dozens of pollen images from under the SEM microscope
- 20 boards with descriptions of plants and their pollen
- 20 plant graphics
- 114 pollinator graphics
- soundtrack composed of 54 sounds of insects and birds



Teaching case

Teaching case

1. Three lesson plans:

"A couple in love" - fragrant flowers, pollinating insects" - grades I - III elementary school

"The flower and its world" - grades IV - VI elementary school

"Flowers, insects and their arrangements" - grades VII - VIII elementary school

2. Print materials:

"A collection of puzzles for slightly younger"

"A collection of puzzles for slightly older"

3. Additional materials:

- wooden flower construction puzzle
- wooden memory



Additional information



Technical specifications:

- floor area 182 m²
- height 2.6 m
- 230V electrical outlet
- setup time: 2 days
- dismantling time: 2 days
- languages: Polish and English

EC1 Lodz – the City of Culture



EC1 Lodz – the City of Culture is a cultural institution co-managed by the city of Lodz and the Minister of Culture and National Heritage. The institution was established in the buildings of the historic Lodz Power Plant which began producing electricity in 1907 and operated until 2000.

The complex includes:

- Science and Technology Center
- Planetarium
- Street of Elements
- Center for Comics and Interactive Narration
- National Film Culture Center
- Lodz Film Commission



Science and Technology Center



The Science and Technology Center was opened on 7th January 2018 with the aim of popularizing science, technology and to activate visitors in learning about the world. Interactive exhibits allow visitors to perform experiments in such fields as: acoustics, electromagnetism or optics. The center includes an auditorium, spherical 3D cinema and laboratory spaces.

The permanent exhibition consists of three thematic paths:

"Energy Processing"

Multimedia elements woven into the historic site will surprise and delight everyone. An unforgettable experience is watching the mapping on the historic Brown Boveri turbine plant.

"Knowledge and civilization development"

The principles of nature, the laws of science, related inventions all made it possible to build the civilization in which we live. Here we learn about reality by touch, play, experiences and experiments.

"Micro-world and macro-world"

We show what is invisible to the unaided eye. We reveal the secrets of the universe from observing the wings of a butterfly to capturing the farthest depths of the Cosmos.



Science and Technology Center



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