



**ENVIRONMENTAL EDUCATION
IN THE BOTANICAL-GARDEN INSTITUTE
FEB RAS: VALUE AND PERSPECTIVES**



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Схема расположения объектов

Ботанического сада-института ДВО РАН





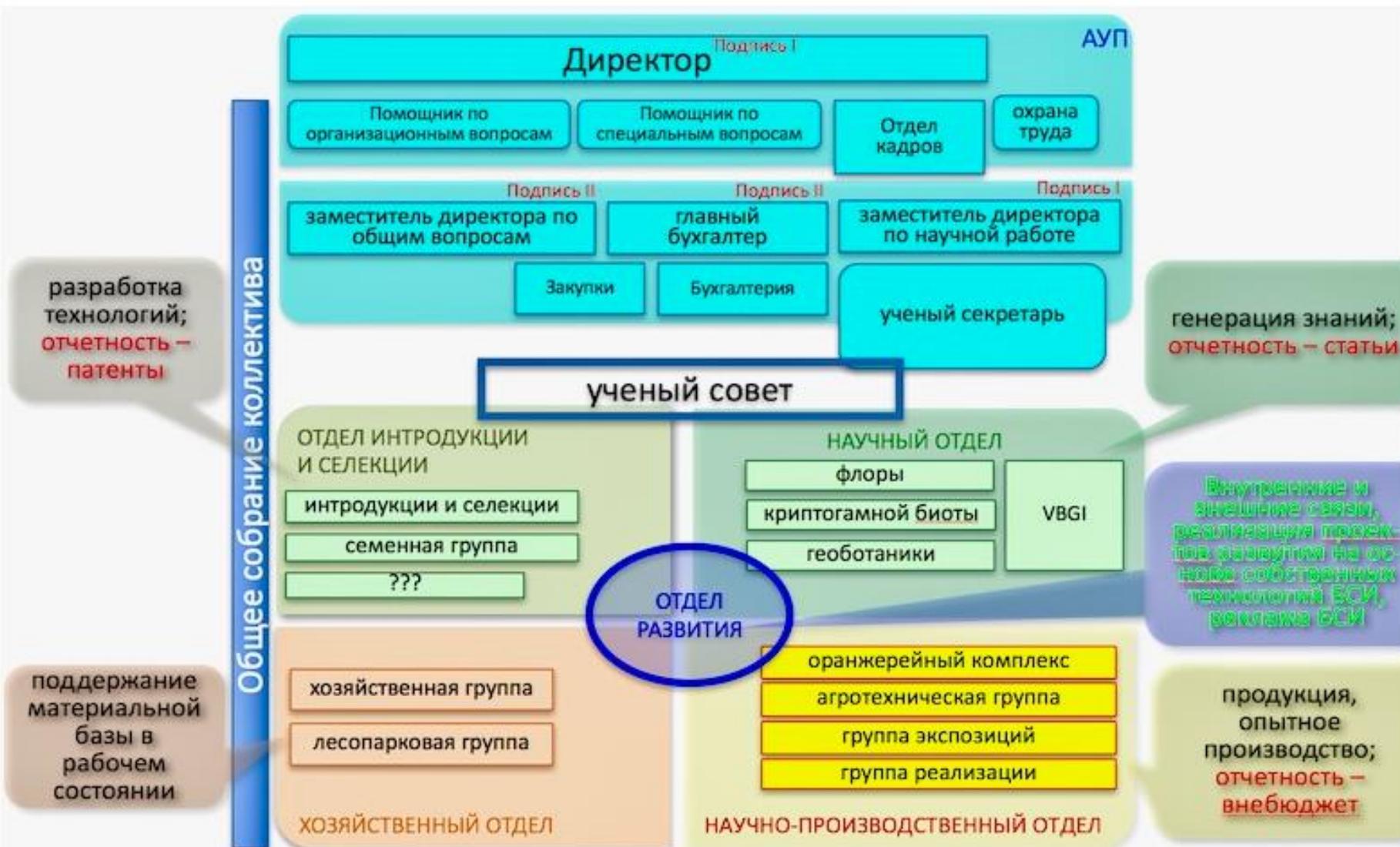
Major tasks and research in the Garden

- **The main task of the Garden** is fundamental and applied studies in botany, plant ecology, forestry and nature protection.
- **Research:**
- Biological bases of plant introduction;
- Plant genetic resources of the Far Eastern flora conservation;
- Anthropogenic changes of vegetation.

Environmental education

Structure

Botanical Garden-Institute FEB RAS



Environmental Education Exchange Trips to the USA 2010, 2013, 2016-2017

Goal – *to study the experiences of overseas organizations involved in ecology-botanical education activities*

Objectives:

- 1. Get to know ecology-botanical organizations and methods of teaching in Washington State (USA).**
- 2. Examine basic aspects of how organizations work with sponsors and volunteers.**
- 3. Acquire knowledge of how to build and maintain eco-trails.**





Ecology Center

“The Forest in Your Hands...”

...was created within BGI, and brings together enterprising and creative people, specialists in biology, ecology, and flora conservation, who strive to attain harmony between humans and the natural world.

Mission: to develop ecological thinking in the populace for improving the quality of life and raising the effectiveness of biodiversity preservation in the region.



Current Environmental Education Programs at BGI

1. Basic walking tours

for adults (science-based)

for children (with games)

2. Thematic tours

3. Ecology–botanical festivals and conferences

▶ **Rhododendron Day**

▶ **Fir Tree Day**

▶ **Bird Day**

▶ **Magnolia Day**

▶ **First Spring Flowers Day**

4. Environmental Education and Outreach Week

5. Seminars on Environmental Education for Teachers

6. Outings for family groups, such as the program “Science, the sea, children”

7. Science and learning games and quests

8. Master classes

9. Children’s New Year Performances

10. Program «Tasty Tropics»

11. Program «Hello, Summer»

12. Program «Cosmic Plants»



BGI's Approach to Environmental Education

Environmental education is an important part of biodiversity conservation. The major purpose of this education is to strengthen environmental public awareness and broaden actions to preserve nature.

Kindergarten

School

University



Basic walking tours



List of Thematic Tours

№ 1. Tour with games: **A WINTER STROLL ON THE ECO-TRAIL**

№ 2. Lecture/class: **LIVING FORMS OF PLANTS**

№ 3. Tour: **AQUATIC PLANTS.**

№ 4. Tour: **A STROLL ON THE ECO-TRAIL**

№ 5. Lecture or Tour: **MEDICINAL PLANTS OF PRIMORSKY KRAI**

№ 6. Lecture or Tour: **POISONOUS PLANTS OF PRIMORSKY KRAI**

№ 7. Tour of the Greenhouse or lecture with a slides in your school:

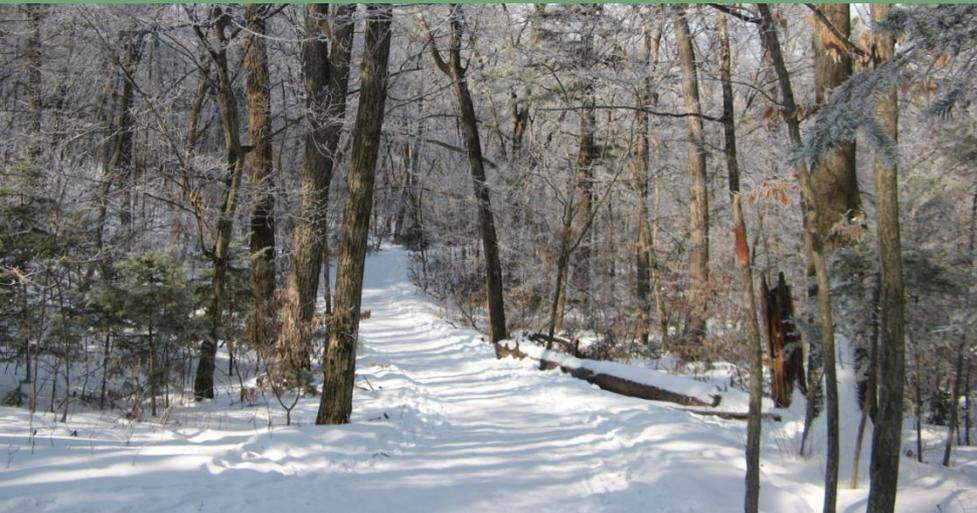
MEDICINAL PLANTS AS INDOOR GREENERY.

№ 8 Lecture with slides: **MUTUAL RELATIONS BETWEEN PLANTS.**





In the forest area is an ecological trail of 2 km.
Excursions on this trail give an overall impression of the
composition and the complex structure of the forests of southern
Primorye.



International Applied Science Conference for Schoolchildren of the Pacific Region

“Rhododendron Day”



Has been held since 2005.

Main goals: raising the level of ecological-botanical education and outreach among schoolchildren of Vladivostok and Primorsky Krai by enhancing their attention to the environmental issues of the region; development a positive relationship of children toward the natural world and toward rare and endangered species of flora and fauna, through participation in nature protection activities. Also increase of international awareness – Japanese and US children participate each year, US children from the Seattle area as part of the US-Russia Environmental Education Exchange.



Environmental Festival

“Bird Day”



Environmental Education and Outreach Week



Has been held since 2011.

Goal: The goal of activities taking place under the general title of Environmental Education and Outreach Week is the spread of ecological-botanical knowledge among broad sectors of the population and the enhancement of understanding of connections between the plant world, humans, and the environment.

Day 1 – The Forest

Day 2 – Water

Day 3 – Soil

Day 4 – The Human Habitat

Day 5 – Climate Change

Day 6 – Saturday is Volunteers Day

Day 7 – Science Seminar for Teachers



Environmental Education Seminars for Teachers



Have been held since 2011.

Goal: to search for ways to work together to solve environmental problems, to exchange experiences between diverse environmental organizations and educational institutions on the international level.



Children's New Year Performances

Has been held since 2011.

Goal: To spread knowledge about the most common conifer tree in the Vladivostok area – the big-needle, or black, fir; to help build interest toward its protection from harvest on the approach of New Year, and also to enhance familiarity with the life of this iconic fir tree during the winter period.



Environmental Festival “Fir Tree Day”



Has been held since 2013.

Goal: To spread knowledge about the most common conifer tree in the Vladivostok area – the big-needle, or black, fir; to help build interest toward its protection from harvest on the approach of New Year, and also to enhance familiarity with the life of this iconic tree during the winter period.



Environmental Festival: “Festival of First Spring Flowers”

Held since 2015

Goal: To spread knowledge about spring herbal plants of Primorsky Krai, familiarization of visitors with the particularities of their cultivation in the conditions of southern Primorsky Krai.

The program includes:

- Tour “First Spring Flowers of the Ussurisky Taiga”
- Master class “Adaptations of Broad-leaf Trees
- Quest “First Flowers”
- Master class “Dream Catcher”



Adonis amurensis



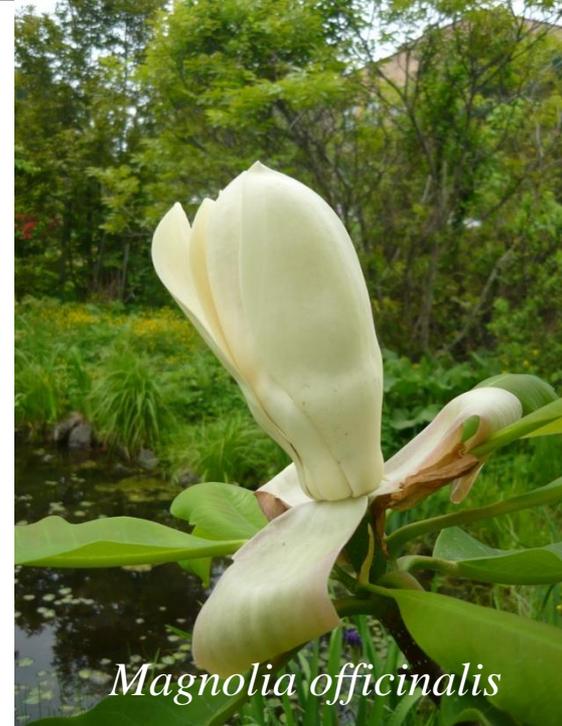
Environmental Festival

“Magnolia Day”

Held since 2014,

Goal: To spread knowledge about one of the most beautiful woody plants in the Botanical Garden – representatives of the Magnolia genus – familiarizing visitors with the particularities of its cultivation in the conditions of southern Primorsky Krai. The program’s activities include:

- Slide presentation “Magnolias in southern Primorsky Krai”
- Tour of the Magnolia collection in the Botanical Garden
- Master class in cultivation of Magnolias



The Program “Leaves in the Palm of Your Hand”



Held since 2015.

Goal: Familiarization of pre-school children with the natural world of their native region; development of active intellectual curiosity, motor skills, and aesthetic taste.



Inter-museum Family Quest: Science and Travel in the Maritime Primorsky Region

Has been held since 2016

This program is for family groups, and was developed by five public science institutions both indoors and outdoors. Each year 300-500 family groups participate.

Наука
В путешествии
Приморье

МЕЖМУЗЕЙНЫЙ МАРШРУТ
для всей семьи

14 июня
18 июля

Давайте
исследовать морское
побережье вместе!



наукаморедети.ru



Program «Tasty Tropics»

Goal: introduce schoolchildren to tropical and subtropical plants and to show their significance for humans.

The lesson includes a lecture on tropical fruit plants, a quest game on the same topic and at the end tastes the fruits that they were introduced to.



Вкусные тропики!
Для школьников!

Ботанический сад-институт ДВО РАН

Удивительная программа!

Экскурсия "На запах фруктов"
(экскурс по плодовым растениям тропиков)
- Квест "Что за фрукт?"
(победитель получает приз от БС);
- Дегустация тропических фруктов
(любимые лакомства детей).

300 руб.!

Запись на мероприятие обязательна!
Дополнительная информация по тел.: 89141698664

Program «Cosmic Plants»

- ▶ Goal: introduce students to the concept of “gravity”.
- ▶ The program consists of a lecture, presentation, laboratory work and homework on the construction of the “space greenhouse”.
- ▶ This event is visiting and was held school.
- ▶ Age: 1-4 class



Program «Hello, Summer» (Ecological Team Quest Game)

- ▶ The prototype was the program shown by the Bellevue Botanical Garden (USA).
- ▶ Each team receives a folder with tasks. All tasks are related to ecology and environmental issues.
- ▶ The team's task is to answer the questions to cover the entire route indicated on the map and complete tasks at intermediate stations.
- ▶ The program is aimed at obtaining new information about nature, as well as at consolidating the knowledge gained in schools in the lesson "The world around us."



Master Classes

work with scientific instruments



“my first herbarium”



“botanical frames for photographs”



“botanical art projects”



“a plant for your mom”



“forest friends”



Master Classes

"Predatory Plants" and "Green Friend"



«Florarium»



"Flower watercolor"



«Bookmarks and postcards from dried flowers»



«Magic peony»



«Eco-friendly soap»



«Dream Catcher»



Thank you very much for your attention!



[botsad_vladivostok](#)



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All information about BGI
FEB RAS is available at
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