

APRU 12th Annual Presidents Meeting  
Presidents Open Forum

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**Far Eastern National University:  
Recent Accomplishments and  
Strategic Development Issues**

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*June 28, 2008*



# THE NEW RUSSIA

*The last 8 years of the Russian Federation's history is a success story. The federal government's strategy is one of the key factors of this success. A well-educated country with an abundance of natural resources is a rare combination, fostering dynamic development. Far Eastern National University is in a cross-section of many federal strategic priorities.*

## ***Federal strategy:***

- ❖ Development of research-intensive technologies
- ❖ Investments to people's knowledge, skills, and quality of life
- ❖ Focusing federal support on the most competitive national high tech industries, so called "locomotives of national success", and on the key economical and social problems.
- ❖ Focusing federal support on particular regions, including the Russian Far East; integration of this region to high tech sectors of Pacific Rim's economies; building infrastructure for the APEC 2012 Summit

*In spite of focusing on particular areas, achieving each of these strategic goals requires a comprehensive approach and many hundreds thousands of high qualified specialists in all fields of human knowledge. Only the top tier comprehensive and research universities, combining quality and mass education, can do this.*



# THE RUSSIAN MODEL:

## New Federal Initiatives and Policies in Education and Research

- ❖ **“Education” Priority National Project (EPNP):** one of four national priority projects, targeted to modern the whole educational system of Russia
- ❖ **Innovative Universities Competition:** a EPNP component focused on upgrading the most competitive universities, to ensure real impact of university research and education on the national economy and quality of life.

### WORLD CLASS CENTERS COMBINING RESEARCH AND EDUCATION, CREATED BY FAR EASTERN NATIONAL UNIVERSITY IN 2006-2008:

- ❖ Nanophysics and Nanotechnologies Center
  - ❖ Physics of the Earth Center
  - ❖ IT and Electron Optics Center
  - ❖ Medical Physics Center
  - ❖ World Ocean Center, based on Marine Biota Center, the leading national research and education center in this area
- ... and others*

Comanche, FENU's deepwater (up to 6 km) robot: environmental and mineral resources research - produced by SUB-ATLANTIC Co., Great Britain



### WORLD CLASS LIBRARY, 2008:

- ❖ FENU Research Information Institute - Fundamental Library



*FENU, one of the first 17 winners of the Federal Innovative Universities Competition in 2006, during the next 2 years renovated 95% of its research laboratories' equipment, created 36 new research labs, and completed construction of one of the best Russian university libraries; the budgets of all these projects had about 2/3 federal funding and 1/3 FENU's matching funds.*



# THE RUSSIAN MODEL, 2008: THE FEDERAL UNIVERSITIES NETWORK

Initiative:

Vladimir Putin and Dmitriy Medvedev



Within a few years, the Federal Universities Network will include about 7 universities, in the longer perspective - up to 15-20. FENU can receive the status of federal university in a very near future.

Russian Government focuses large scale federal support on the few most competitive universities, to achieve the level of the leading world universities, become the national centers of education and research, and foster innovative and sustainable economic development in large regions or in the whole country.

All-time national leaders:

Lomonosov Moscow State University  
Saint-Petersburg State University

Established in 2006, accredited in 2007:

Southern Federal University  
Siberian Federal University

Nominated and evaluated in 2008:

Far Eastern Federal University  
Nuclear Federal University  
Technological Federal University

Types:

Regional comprehensive university  
Specialized university  
Research university

Students:

around 50,000 (full-time equivalent) for regional universities; 15,000-20,000 for specialized universities



# FENU STRATEGIC DEVELOPMENT PROGRAM, 2009-2015

Prepared on request of the Russian Federal Government, submitted on June 19, 2008

Federal Government Evaluation Committee Meeting on the Program: June 23, 2008

## TARGET:

Comprehensive research university of the top tier world class, closely interacting with economy and social life of the Russian Far East, promoting breakthroughs in innovative development and contributing to new quality of life in the whole region.

## OBJECTIVES:

- 1) Support of the Federal Program of Russian Far East Development
- 2) Creation of adequate infrastructure for realization of innovative large scale projects, development of new research areas and research-intensive academic programs
- 3) Integration into high tech sectors of other Pacific Rim economies
- 4) Support of regional security by means of research and education
- 5) Development of priority areas (listed in the next slide)



# THE SYNERGY OF RESEARCH AND EDUCATION: STRATEGIC DIRECTIONS

## FOR BREAKTHROUGH IN TECHNOLOGIES OF SUSTAINABLE DEVELOPMENT:

- ❖ World Ocean
- ❖ Nanophysics and Nanotechnologies
- ❖ Life Sciences
- ❖ Information Technologies

## FOR INTEGRATION TO ASIAN PACIFIC REGION:

- ❖ Oriental Studies
- ❖ International Business
- ❖ International Tourism and Hospitality
- ❖ Global Security
- ❖ Russian Language and Culture

**The Federal Government gives priority support to FENU research and education areas which meet both of the following criteria:**

- ❖ proved their high competitive level by many previous achievements;
- ❖ relate to the most perspective trends of global research and development.



## MAJOR INSTITUTIONS TO BE CREATED AND DEVELOPED IN THE PRIORITY RESEARCH AND EDUCATION AREAS

### FENU's R&D PARK:

- ❖ World Ocean Center of Innovation and Technologies  
*(established in 2008)*
- ❖ Nanotechnologies Center of Innovation and Technologies  
*(established in 2006)*
- ❖ Center of Information Resources
- ❖ Center of Innovative Medical Technologies

### OTHER INSTITUTIONS:

- ❖ International Business School
- ❖ Center of Social and Political Technologies
- ❖ Center of Russian Language and Culture
- ❖ Center of International Education

**The R&D Park will be a shortcut from research to implementation for FENU's research teams which already are among the best in Russia.**



# FENU STRATEGIC DEVELOPMENT PROGRAM, 2009-2015: INDICATORS

## ACADEMIC AND RESEARCH PROFILE

| INDICATOR  | YEAR, NUMBER |      |
|--|--------------|------|
|  | 2008         | 2015 |
| Degree and certificate programs, total number  | 627          | 900  |
| Post-bachelor (5 year degree) specialties  | 90           | 130  |
| Undergraduate specialties  | 49           | 60   |
| Graduate specialties   | 14           | 46   |
| Doctoral specialties   | 64           | 94   |
| Post-doctoral (Russian upper-Ph.D.) specialties  | 14           | 36   |
| Portion of FENU publications in worldwide scientific journals in relation to all Russian Far East universities and colleges, according to the Science Citation Index | 64%          | 70%  |

*The program of FENU's strategic development is aimed at dynamic development on all key characteristics of the university profile; however, we have a very good starting point, one of the best in Russia. We will increase the comprehensive character of our university by adding new specialties, most of which are not taught anywhere in the Russian Far East.*



# FENU STRATEGIC DEVELOPMENT PROGRAM, 2009-2015: INDICATORS

## HUMAN RESOURCES PROFILE

| INDICATOR   | YEAR, NUMBER |        |
|---|--------------|--------|
|   | 2008         | 2015   |
| Students, total number  | 41,000       | 70,000 |
| Students of degree programs, FTE  | 24,000       | 50,000 |
| International students  | 800          | 5,000  |
| Students of International dual degree programs                                  | 300          | 800    |
| Doctoral students   | 500          | 1,000  |
| Faculty and staff, total number   | 5,000        | 15,000 |
| Faculty members   | 1 440        | 6,000  |
| International faculty members and researchers                                   | 47           | 300    |
| FENU faculty members working in foreign partner universities on temporary basis | 38           | 150    |

*We will increase the number of students, but we will focus on qualitative dynamics: more doctoral students, more degree students, and more international students. The most ambitious increase is planned for the number of faculty members, especially international ones.*



# FENU STRATEGIC DEVELOPMENT PROGRAM, 2009-2015: INDICATORS

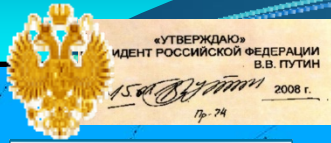
## INSTITUTIONAL PROFILE

| INDICATOR  | YEAR, NUMBER |      |
|--|--------------|------|
|  | 2008         | 2015 |
| Research and educational institutes  | 28           | 40   |
| Schools (faculties)  | 47           | 60   |
| Academic departments (chairs)  | 153          | 200  |
| Research and education centers   | 7            | 12   |
| International dual degree programs   | 7            | 15   |
| International partner institutions within academic, research, faculty and students exchange programs | 200          | 300  |
| Formal president-level institutional partnership agreements  | 96           | 150  |

*Our institutional growth will be more steady; we will focus on developing existing subdivisions and programs; however, the institutional dynamics will be positive, especially relating to international cooperation.*



# FAR EASTERN NATIONAL/FEDERAL UNIVERSITY AND R&D PARK, 2012-2015



The project was signed by Vladimir Putin in January 2008.

Business and Social Zone

The bridge to downtown Vladivostok

Tourism & Recreation Zone

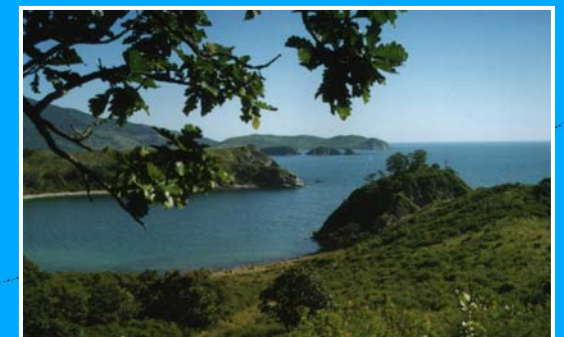
APEC 2012 location

Russian (Russkiy) Island

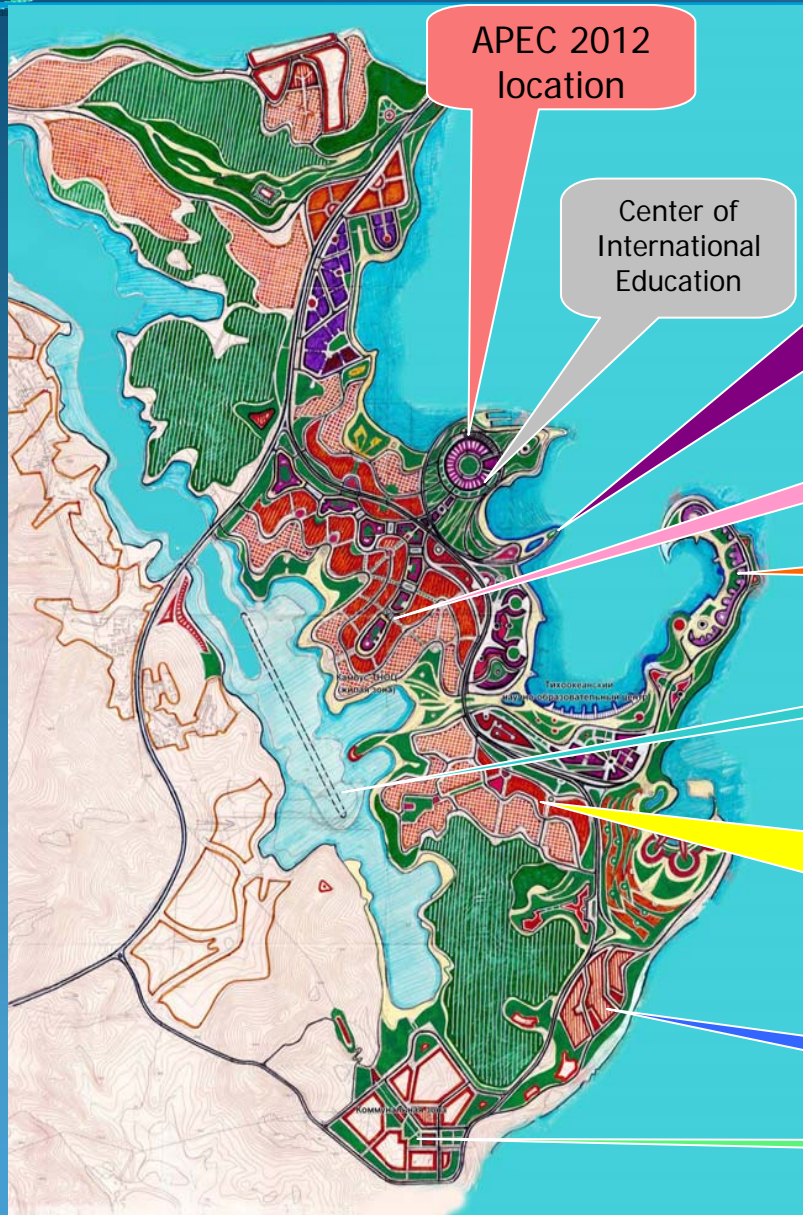
Oceanarium (Sea Park)

Campus and R&D Park  
(the exact borders of the zones may be changed)

The federal plan is to construct a new campus of the scale and level unprecedented in Russia. The infrastructure of the campus should be adequate to accommodate over 7,000 participants of the APEC 2012 Summit and over 50,000 students.



# THE FAR EASTERN NATIONAL/FEDERAL UNIVERSITY CAMPUS, 2012-2015



APEC 2012  
location

Center of  
International  
Education

Academic and research  
buildings:  
430,000-500,000 m<sup>2</sup>  
Fundamental Library:  
85,000 m<sup>2</sup>

Dorms, 500,000 m<sup>2</sup> for  
50,000 students

Outside the campus:  
Oceanarium (Sea Park)

Water Stadium

Resident areas for  
faculty members,  
kindergartens  
and schools

R&D Park

Infrastructural Zone

Project; last update:  
June 2008



## 9th APRU DOCTORAL STUDENTS CONFERENCE

**"Leading Research for a Better Future: Pacific Scope, Global Impact"**

**Hosted by Far Eastern National University, 14 - 18 July, 2008**

30 APRU universities participating in DSC2008 (*listed in alphabetical order*):

- Australian National University
- Chulalongkorn University
- Far Eastern National University
- Fudan University
- Hong Kong University of Science and Technology
- Keio University
- Kyoto University
- National Autonomous University of Mexico
- National Taiwan University
- National University of Singapore
- Osaka University
- Peking University
- Seoul National University
- Tsinghua University
- University of Auckland
- University of British Columbia
- University of California, Berkeley
- University of California, Davis
- University of California, Irvine
- University of California, Los Angeles
- University of Indonesia
- University of Malaya
- University of Melbourne
- University of Oregon
- University of Science and Technology of China
- University of Southern California
- University of Sydney
- University of the Philippines
- University of Tokyo
- Waseda University

**The number of DSC2008 participants is record-braking in the history of this conference; it has grown from 23 to 30 since the previous year.**



# Thank You for Your Attention!



## Contact Information

### Websites

Far Eastern National University:

<http://fenu.ru>

APRU DSC2008:

<http://www.fenu.ru/dsc2008>

APRU Doctoral Students Network:

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