North-Eastern Federal University and Institute of APEC Collaborative Education: The Experience of Cooperation

Submitted by: Russia
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North-Eastern Federal University (NEFU), one of the 8 Russian federal universities, is to become a strategic center for the formation of a common cultural, scientific and educational space, based on the values of indigenous culture of the peoples of the northeast of Russia, providing quality personal education in a multiethnic environment.
Priority areas of the NEFU Development Program:

- efficient environmental management and environmental security;
- efficient use of mineral resources;
- the use of science-based technologies and production in the North;
- the quality of life in the North;
- the preservation and development of languages and cultures;
- the analytical and personnel support for innovative socio-economic development of the northeastern part of the Russia.

International cooperation is one of the main aspects of NEFU. NEFU collaborates with dozens of universities, colleges, research centers worldwide.

The unique geopolitical position of the NEFU determines priorities for cooperation, which primarily include the economies of the Asia-Pacific and Arctic regions.
The Sakha Republic (Yakutia) is one of the 84 regions of Russian Federation.

Population: 950,000

Territory: 3,103,200 square kilometers (1/5 of the territory of Russia).

Yakutia extends 2,000 km from north to south and 2,500 km from east to west.

Capital: Yakutsk (population 280,000)

Yakutia is located in the extreme northern part of Eurasia. More than 40% of the territory lies above the Arctic Circle.
… is a cooperative network of universities, colleges and other organizations committed to higher education and research in the North;

… members share resources, facilities, and expertise to provide relevant and accessible post-secondary education for the North;

… works in partnership with indigenous peoples, seeking to engage their perspectives and participation in all activities;

… promotes excellence in knowledge generation and application in areas relevant to the North;

… promotes cooperation in a context in which recognized degrees are granted by the members themselves.
North-Eastern Federal University take part in following projects of IACE:

- APEC e-Learning Training Program (AeLTP);
- APEC Learning Community Builders (ALCoB);
- ALCoB Internet Volunteers (AIV);
- ALCoB Edutainment Exchange Program (AEEP);
- ALCoB Cooperative Project;
- APEC Future Education Forum (AFEF)
The objectives of AeLTP:

... to cultivate next generation leaders in e-HRD and education informatization;

... to disseminate information on best e-Learning practices, implementation policies, and research results through online, offline, annual reports;

... to establish and maintain a regional cooperative human network by sharing cultural experience and facilitating effective education interaction with participants.

Since 2007 more than 50 school teachers, university lecturers and education administrators from Sakha participated in e-Learning training at IACE.
APEC Learning Community Builders

... is one of the representative human networks in the APEC region (around 5,000 members from 21 economies)

... consists of APEC member economies' teachers (ALCoB-T), learners (ALCoB-L), university students (ALCoB-U), education administrators, supporters (ALCoB-S)

... works to materialize the APEC Learning Community based on self-activity, understanding, cooperation and volunteerism.

ALCoB-Sakha
**ALCoB Internet Volunteers (AIV)**

**Objectives:**
- Narrowing the digital divide among APEC member economies through ICT training courses;
- Enhancing the understanding of APEC member economies through educational and cultural exchanges;
- Building a learning community through maintaining post-activities.

**ALCoB Edutainment Exchange Program (AEEP)**

- Online Application
- Online Training
- Evaluation
- Preparation of Team Project
- Project Planning
- Final Report Presentation
- AEEP Awards
- Preparing Following-up Activities
- Pre-Activities
- Presentation of Project Proposal
- Team Activity
- Interim Report/Feedback
- Visiting Cultural Place
- Outdoor Activity (Cultural Night)
- Post-Activities
- Experimental Learning Activities

**AEEP**
AIV activity in Yakutsk, Russia

July 2009
• AEEP activity
• e-Learning technology workshop

August 2010
• AEEP activity
• Modern medical technology workshop

July 2011
• Summer school on IT and robotics

July 2012
• AEEP activity
• Summer school on IT and robotics

ALCoB-Sakha

In June 2011 ALCoB-Sakha and NEFU have established Computer Training Center for additional training of students on ICT and robotics.
Вместе с Малой компьютерной академией СФУ — в увлекательный мир информационных технологий и робототехники

Информационные технологии
- Выполнение и анализ
- Участие в проектах
- Может использовать программное обеспечение
- Изучает основные Концепции
- Написание и обсуждение

Сложные и перспективные
- Участие в проектах
- Может использовать программное обеспечение
- Изучает основные Концепции
- Написание и обсуждение

Организация и реализация
- Крупные школы
- Вне зависимости от программы
- Практика в вузах
- Программа в вузах
- Практика в вузах
- Программа в вузах
- Практика в вузах

Workshops for school teachers on ICT in education

IT & Robotics Day

Assembling and programming of robots:
- Lego Mindstorms NXT
- RoboRobo Robo-kit
- ED Mobile robot
- RoboBuilder

*Presentation of educational robots

Students competition on IT and programming
ALCoB-Sakha activity

• participation in ALCoB and NEFU educational projects;
• workshops and trainings on ICT in education;
• ICT and robot trainings for students;
• Summer and Winter schools on IT and robotics.

APEC Future Education Forum

APEC Future Education Forum aims at crystallizing the vision of future education and materializing ideal model of future schools from a wide spectrum of viewpoints on future society and education among scholars, experts and educators in the APEC region.
North-Eastern Federal University was the participant of:
- V AFEF, Bangkok, Thailand (November, 2009)
- VI AFEF, Busan, Korea (November, 2010)
- VII AFEF, Denpasar, Indonesia (November, 2011)
- VIII AFEF, Gyeongju, Korea (May, 2012)

NEFU + IACE = ?

- trainings and workshops on ICT in education;
- trainings for staff of NEFU Institute of Medicine at the Simulation center of PNU School of Medicine;
- sharing the experience on informatization of education, supercomputer technology and etc.;
- joint research projects;
- new direction of university activity focused to the high school students (educational robotics);
- new university center of additional training of students on ICT and robotics;
- new possibilities for developing partnership projects and students mobility programs with universities of APEC economies.
Thank you!