



UNIVERSITY  
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UCA NEWS



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*The University of Central Asia was founded in 2000 by the governments of Kazakhstan, Kyrgyzstan, and Tajikistan, and His Highness the Aga Khan. The International Treaty and Charter establishing this secular and private University was signed by His Highness the Aga Khan and the Presidents of Kazakhstan, Kyrgyzstan, and Tajikistan, ratified by the respective parliaments and registered with the United Nations.*

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### **In this issue:**

#### **Developing Knowledge Management Capabilities at UCA: Current Achievements**

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Significant investments are underway in the development of knowledge management (KM) capacity at UCA to support its vision towards becoming a regional centre of information and knowledge. These efforts are designed to support the academic, development and policy communities working towards the economic and social development, particularly of mountain communities, in the region.

A core function of UCA's KM programme is to coordinate and consolidate existing knowledge, capture new knowledge and enable various stakeholders to share and disseminate relevant information. As a young and growing academic institution with a regional presence, UCA is in a unique position to build a solid knowledge repository that will support the work of policy makers, research scholars, and development practitioners. To this end, UCA is making considerable human, financial and technological investments to position itself as a resource for dynamic information.

The KM activities are linked to UCA's ongoing programmes and development, and include library resources, operational academic programmes, and communications. Through these activities, UCA can provide real time programme information, access to electronic and physical publications, and support to the institution's internal and external communications.

A long-term initiative of UCA's KM programme is the development of knowledge databases. This initiative is designed to attract researchers to the region by facilitating access to information and developing collaborative projects with UCA scholars that can continue to sustain and enhance knowledge resources for the greater community. A supplementary goal is to use these knowledge resources to collect and store longitudinal monitoring data in order to establish critical indicators on economic, social and environmental factors. The collection and consolidation of such data within a centralized database will inform efforts to develop the region.

Current initiatives for identifying, capturing and storing existing data are being achieved by developing an integrated knowledge repository and storage platform through the application of open source technologies. Specific software is also in use for the production of knowledge dissemination tools, including the electronic newsletter *UCA News*, student databases for the

School of Professional and Continuing Education, the Central Asian Faculty Development Programme, and intranet resources. With the hosting arrangements for regional networks such as Swiss National Centre of Competence in Research North-South (NCCR) and Mountain Partnership Consortium regional hubs for Central Asia, UCA's contribution towards bridging local, regional, and global communities in the exchange of knowledge and practices will continue to grow.

UCA is the first in the region to apply innovative open source initiatives for KM technologies and is building local capacity in this field.

The four main projects to-date include:

1. The Research Digital Warehouse (RDW), (internal)
2. Central Asian Faculty Development Program (CAFDP) online database (internal)
3. The School of Professional and Continuing Education (SPCE) website (internal)
4. The Kyrgyz-Swiss Forestry Support Program (KIRFOR) website, coming soon at <http://www.kirfor.org>. (external)

### **Research Data Warehouse (RDW)**

The RDW is an extensive collection of electronic documents in various formats, including MS-Word and PDF documents to music and video files. RDW is currently hosting more than 10,000 documents, that is, more than 25 gigabytes of storage space. The RDW is accessible to UCA staff and visitors through a standard web interface that is continually updated by adding electronic documents of interest to UCA.

The RDW is fully searchable using keywords in the headers and content, is regularly and securely backed up, and is available in a friendly online format to encourage online reading.

Several ongoing initiatives are underway to improve the RDW as a research tool, including:

- Google map and Geographic Information Systems (GIS) mapping integration.
- Multi-language support and cross linking (*i.e.* if a document is available in more than one language, this feature will make it possible to cross-reference various versions).
- Data analysis (*i.e.* a tool which will be capable of finding/data mining information within the repository. For example, a statistical software program could enable researchers to extract information from many different data sources handled by the system and converted into a standardized format in real-time.)

One of the most powerful features of RDW relates to the creation of table of contents or similar ways to organize information. As opposed to the antiquated approach adopted by the majority of electronic libraries currently available, the RDW content management system is based on an

extended “Taxonomy,” or the practice and science of classification according to natural relationships, and is used by RDW administrators to organize content on the site.

Multiple taxonomies can be created and the RDW is not limited or constrained by early errors in classification. Instead, content can be dynamically re-tagged according to new ideas and classifications.

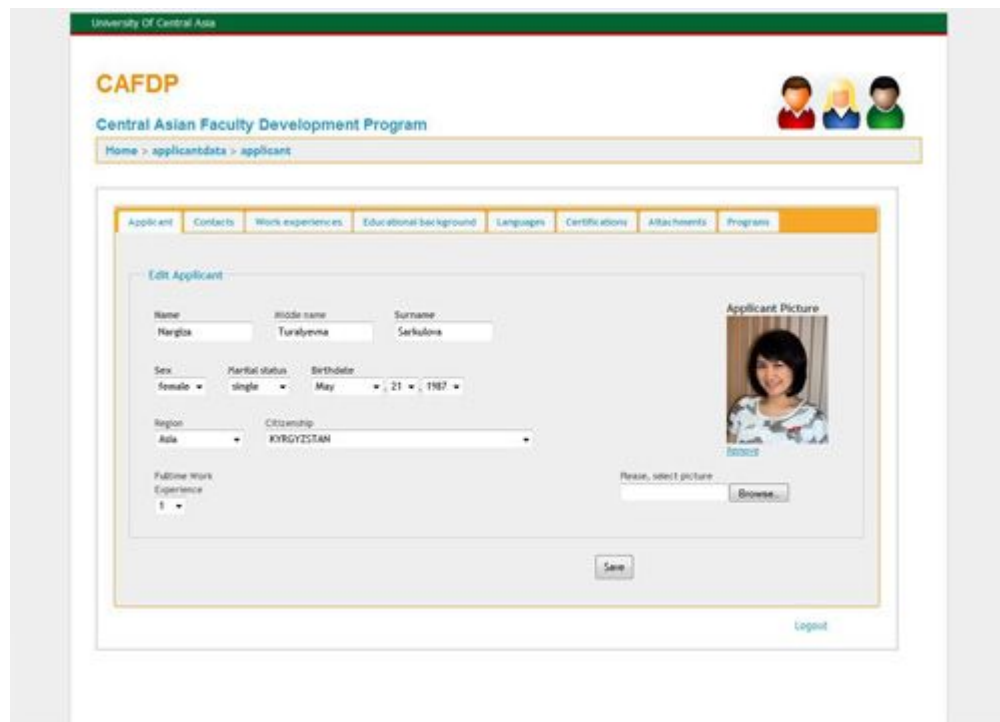
The screenshot displays the Research Data Warehouse (RDW) interface. At the top, the University of Central Asia logo and the RDW name are visible. A navigation bar includes links for 'View Documents', 'Music', 'Recent Posts', 'About Us', and 'Contact Us'. The main content area features a search bar, navigation links (File browser, File server, Music), a poll titled 'What do you think of UCA's RDW?', a user login form, and a syndicate section. The central focus is a document titled 'Forest typology in the Kyrgyz Republic, 2008, Bishkek' by gnygl on Nov 11/16/2009. The document cover image shows a mountainous landscape with a river and the title 'Forest typology in the Kyrgyz Republic'. Below the cover, there are options to download the label, a list of other available formats (Image, Preview, Medium, Thumbnail), and document statistics: 'Forest typology in the Kyrgyz Republic, 2008, Bishkek' (78.7 MB, PDF document, 0 views, 0 downloads). The footer contains navigation links and a copyright notice for UCA.

Finally, in developing the underlying “RDW Engine” to efficiently handle the enormous quantity of documents required, software developer Nargiza Sarkulova has achieved the impressive result of becoming one of the official contributors of an international open source project.

The RDW will be web-accessible to each UCA campus later this year, and eventually, will be web-accessible to the general public.

## CAFDP

UCA's Central Asian Faculty Development Program (CAFDP) is supported by the CAFDP website, designed by the KM team. The website serves as the main interface to the database used by UCA to keep track of applications for partner university scholarships. The CAFDP uses many of the technologies described herein and is entirely based on open source software. We aim to make the site available to all three UCA campuses in the future. Being hosted in a central location ensures that the database will always be regularly backed up; consistent, so that users are not able to enter conflicting information; and secure, with only authorized users able to access it.



The screenshot displays the 'Edit Applicant' form within the CAFDP website. The page header includes the 'University Of Central Asia' logo and the 'CAFDP' title. A navigation menu at the top lists 'Applicant', 'Contacts', 'Work experiences', 'Educational background', 'Languages', 'Certifications', 'Attachments', and 'Program'. The form fields are as follows:

Name	middle name	Surname
Nargis	Turalyeva	Serkulova

Sex	Marital status	Birthdate
female	single	May 21, 1987

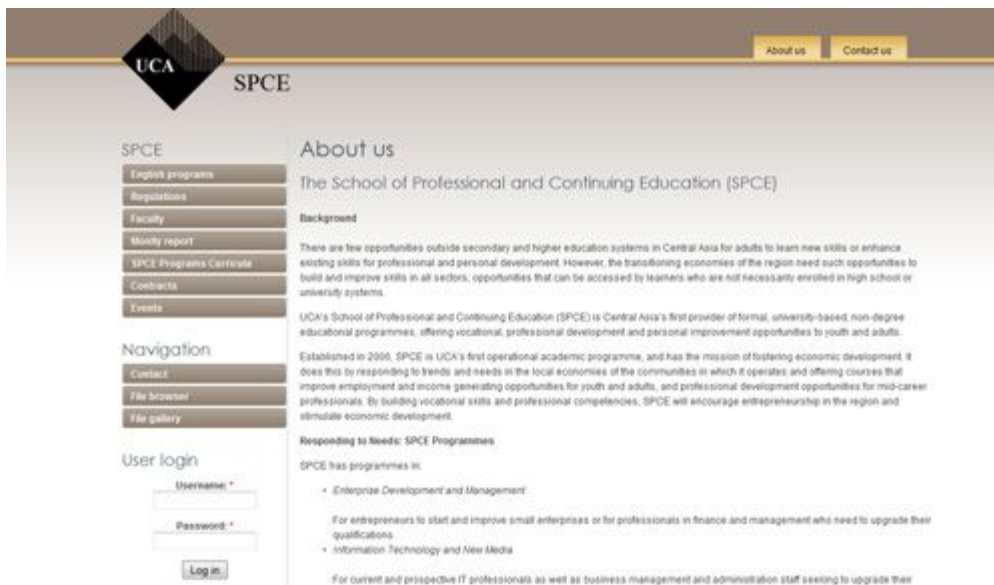
Region	Citizenship
Asia	KIRGYZSTAN

Additional fields include 'Fulltime Work Experience' (set to 1) and an 'Applicant Picture' section with a 'Browse...' button. A 'Save' button is located at the bottom of the form, and a 'Logout' link is in the bottom right corner.

The team is currently developing an advanced search feature to index file attachments, like candidates' CVs, in order to search and extract free form information, which will allow users to search for terms within a CV that might not otherwise appear in the database (e.g. certifications, previous employers etc.).

## SPCE

The website designed for the School of Professional and Continuing Education (SPCE) is used daily to share various types of documents across the SPCE offices in Naryn and Bishkek, Kyrgyzstan; Tekeli, Kazakhstan; and Khorog, Tajikistan.



This website is secure, offering restricted access, with only authorized users able to access the contents. The SPCE site contains many types of internal documents (for example, financial reports), enabling SPCE staff to collaborate and provide due diligence on activities and projects being designed and implemented across great geographical distances. This site serves as an example on how to safely share internal and institutional knowledge at UCA.

## KIRFOR

The website project for the Kyrgyz-Swiss Forestry Support Program (KIRFOR), entirely realized by the UCA KM team, using the electronic research material which was kindly donated by KIRFOR to our university, is another milestone in UCA efforts to fuse its KM capacity with cutting-edge research on the region. The KM team at UCA was selected over several European companies competing to win the bid for the KIRFOR project. As a result, UCA-affiliated researchers will benefit from KIRFOR's valuable research and academic publications. This collaboration will also allow UCA to engage the global research community through resources and materials accessible only through the KIRFOR-UCA collaborative site.

- KIRFOR Overview: Phases 1 to 5
- Programme Support Unit
- National Forest Policy & Sector Reform
- Participatory Forestry
- Forest Management Tools
- National forest inventory (NFI)
- Forest management planning in leshtozes
- Leshtoze forest inventory
- Stand description
- Procedure of map production for forest management planning
- DBMS and data processing
- Elaboration of FMPs
- Map of forest classification by remote sensing
- Forest typology development
- Data base and resources follow up
- Institutional reform and Capacity building
- Lessons learned and future perspectives
- Forest Research
- Forest Education
- Support to Private Initiatives

Home | Forest Management Tools | Forest management planning in leshtozes

2009 Forest Inventory and Management Planning. Booklet

View Properties

File, 6019(2010) - 19.53 -- uca  
This document is also available in Russian.

Document languages:   
Preview: [Flash SWF](#) | [Image](#) | [Preview](#) | [Text](#) | [Medium](#) | [Thumbnail](#) | [Hide](#)

**Forest Inventory - basis for forest management planning**

Forest inventory is one of the mechanisms to ensure sustainable development of the forestry sector and implementation of forestry activities in general.

Forest inventory is a type of forest management activity, which ensures representation of a system of activities aimed at national forestry and forest land use, effective reproduction, guarding and protection of forests.

Forest inventory is implemented on the lands of the forest fund and specially protected nature territories, regardless of the form of ownership, and institutional assignment, by a special forest inventory unit of the state forest governance body or by the private forest inventory units.

Forest inventory activities include the following stages:

- Preparatory works.
- Field activities.
- General works.
- Final activities.

Preparatory works are implemented before the start of the field activities.

In the spring period in order to solve organizational and technical issues of the field work and aimed at timely and quality implementation of the latter, it is prerequisite collection of the main data and preparation of normative documentation on the forest of forest inventory.

In the course of the field activities the following is implemented:

- Inventory of forests with establishment of trial plots according to statistical method of forest location.
- Description assessment of the conditions of forest stands, as per stand location of forest methods.
- Planning of forest management activities and etc.

During the general works:

- On the basis of collected during field general location information from the forest, a data base is being completed.
- Maps and some planning data for forest management are being developed.

During field activities:

- Forest management projects planned for the coming season based on camera works outside.

As in all during forest inventory activities the following documentation usually is prepared:

- Project of organization and development of the forestry units.
- Project of organization and development of the national parks or nature reserves.
- Register of planned forest management activities.
- Location description of the forest stands.
- Map scheme of the forest unit.
- Plan of plantations of 4-25000.
- Map of guarded forest plots of a forestry unit, up to 250000.
- Thematic maps (regeneration, fire danger, etc.).

**In accord with the National Forest Policy objectives in the Kyrgyz Republic forestry sector development is state planned.**

The basis of the forestry development state planning is in forest inventory materials (forest inventory projects, which give a complex evaluation of the forestry).

According to the National Action Plan of the forest sector development in 2006-2010 it is planned to implement forest inventory of the territory of Leshtozes and specially protected territories, totally on the area of 1 259 500 ha.

Problems viewing the video? Download the latest Adobe Flash Player.

Other available formats:

2009 Forest management planning

English

Username: \*  
Password: \*

Request new password

**KIRFOR** Kyrgyz-Swiss forestry support programme

Home | Digital library | Les Tokoy | Photo gallery | Financial Analyses LIT

Search this site:

Home | Les Tokoy


**KIRFOR** Kyrgyz-Swiss forestry support programme

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Search this site:

Home | Les Tokoy

Artificial forests / Искусственные леса


The website, branded both by UCA and the Swiss Cooperation Office in Kyrgyzstan, will host the entire body of knowledge produced in 11 years by the KIRFOR. This body of knowledge, containing unique forestry data on Kyrgyzstan, has been collected, analyzed and published by KIRFOR. These include works such as “Forest typology in the Kyrgyz Republic” (available at <http://212.42.104.133/rdw/node/2705> which is the only publication of its kind in Kyrgyzstan.

The KIRFOR website was completed in less than three weeks—a testament to UCA’s KM capabilities.

**The core UCA IT KM team in Bishkek is currently composed of the following people:**



(from left: Nurjan Sultanova, Bakyt Balbakov, Nargiza Sarkulova, Kishvrsho Pallaev, Emanuel Costa)

**Nurjan Sultanova** works as web-designer using Photoshop, Illustrator, InDesign , html, css and Drupal. She graduated in 2003 from Kyrgyz State University of Construction, Architecture and Transport in Bishkek.

**Bakyt Balbakov** works as software-developer using PHP and MySQL and is setting up the main organization proxy. He graduated in 2006 from the Kyrgyz Technical University of Kyrgyzstan in Computer Programming in Bishkek.

**Nargiza Sarkulova** works as software-developer using PHP, and MySQL. She holds a diploma from the International University of Kyrgyzstan in Computer Systems in Bishkek.

**Kishvrsho Pallaev** works as a Software Developer. He holds a diploma in Software of computers and automated systems from the Kyrgyz-Russian Slavic University.

**Emanuele Costa** joined UCA in October 2008 and is now working as IT-Knowledge Management Consultant using PHP, Java, MySQL, Linux and managing the IT team. He holds a degree in Mathematics and Computer Science from the University of Lancaster (UK) and a MSc in Artificial Intelligence from the University of Edinburgh (UK).

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