

## GIS in Forest: from survey to spatial analyses

The course is intended for MSc students from the NOVA-BOVA network and NW Russia regions. The course will consist of 5 days for lectures, seminars and exercises. The course is arranged by Saint Petersburg State Forest Technical Academy and will be held in Saint Petersburg, Russia, 13<sup>st</sup> of November to 17<sup>th</sup> of November 2006.

As an example we look at GIS used within the official system of Russian forest inventory, management and planning - special software, technologies, data sources, stages of database and forest maps creating. During seminars we are going to show step by step the process of creating databases later used for forest management and planning purposes, including different types of official forests maps. We also show the use of ArcView GIS for forest management and planning purposes on the example of the Saint-Petersburg green belt forests.

On seminars we speak about methods of forest management and planning using GIS. The queries to databases as well as some methods of spatial analysis will be studied. The software used in the exercises will also be ArcView 3.x.

### *Course program*

<b>Date</b>	<b>Time</b>	<b>What</b>	<b>With</b>	<b>Type</b>
October- November		Distance learning	Maxim, Dmitry, Lars	Distance learning
Mon-13	10-12	Course introduction and practical information, presentation of the teachers and other staff.	Maxim Chubinsky	Lecture
	13-17	GIS used within the official system of Russian forest inventory, management and planning.	Dmitry Chernihovsky	Lecture
Tue-14	08-12	Step by step, the process of database creating that is later used for forest management and planning purposes in different types of official forest maps.	Dmitry Chernihovsky	Seminar
	13-15	Use of ArcView GIS for forest management and planning purposes on the example of the Saint-Petersburg green belt forests.	Dmitry Chernihovsky	Lecture
	15-17	Methods of forest management and planning using GIS.	Dmitry Chernihovsky	Seminar
Wed-15	08-12	Continuing from yesterday seminar.	Dmitry Chernihovsky	Seminar
	13-17	Create a map connected to a geodatabase.	Lars GB Andersson	Exercise
Thu-16	08-17	Continue exercises from yesterday.	Lars GB Andersson	Exercise
Fri-17	08-15	Spatial analyses in landscape planning.	Lars GB Andersson	Exercise
	15-17	Questions and feedback from the course	Maxim, Dmitry, Lars	Seminar

### **Lecturers**

**Lars GB Andersson**, Forester/Jägmästare GIS-manager, Department of Landscape Planning, Alnarp, Swedish University of Agricultural Sciences

**Dmitry Chernihovsky**, Department of forest inventory, management planning and GIS,  
St.Petersburg State Forest Technical Academy

**Number of participants**

Approximately 20 students from all over the region. Half of the students will be chosen from the Nordic countries and half from the Baltic States and NW Russia.

**Course language**

The course will be given entirely in English, and good working knowledge in English, both spoken and written as well as reading is a prerequisite.

**Who is eligible to apply?**

The students should have basic education in GIS or forestry.

**How the participants selected?**

The arrangement aims to find the widest variety possible amongst the participants with regard to university and subject area. Half of the participants will be chosen from the Nordic countries and half from the Baltic States and NW Russia.

**Deadlines**

The deadline for application is the 1<sup>st</sup> of November, 2006.

**Contact person:**

Maxim Chubinsky,  
Saint-Petersburg State Forest Academy  
Department of General Ecology, Anatomy and Physiology of Plants  
Cell phone +7 911 9632864  
Fax +7 812 5500815  
E-mail: [wood2004@mail.ru](mailto:wood2004@mail.ru)  
Saint Petersburg, Russia