Ethnic Identities and civil Integration in Georgia
The Ideal Tax Burden
Fight against AIDS epidemic: Georgia’s experience
Georgian Physicists’ Paths from Tbilisi State University to CERN
Threats of Ethno-Terrorism
Georgian Literature in European Sciences
The Secret of Georgian Wine
Many Suns Instead of One; A new-type solar energy concentrator created by the scientists from TSU
Tbilisi Gymnasium (Tbilisi School for Nobility) where the first Georgian university was established in 1918.
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contents</td>
<td></td>
</tr>
<tr>
<td>1. Many Suns Instead of One</td>
<td>4</td>
</tr>
<tr>
<td>2. Industrial Waste – For Protection of Cultural Heritage</td>
<td>9</td>
</tr>
<tr>
<td>4. Georgian Physicians’ Path from Tbilisi State University to CERN</td>
<td>17</td>
</tr>
<tr>
<td>5. Archaeological Expeditions at Tbilisi State University</td>
<td>20</td>
</tr>
<tr>
<td>6. Complex Physical Methods of Dating in Archeology</td>
<td>27</td>
</tr>
<tr>
<td>7. Georgian Literature in European Sciences and the Latest Achievements in Kartvelology</td>
<td>32</td>
</tr>
<tr>
<td>8. Toponymy – Chronicles of the Past</td>
<td>35</td>
</tr>
<tr>
<td>9. Problems of Juvenile Liability and Application of Coercive Education Measures Project</td>
<td>40</td>
</tr>
<tr>
<td>10. Threats of Ethno-terrorism</td>
<td>44</td>
</tr>
<tr>
<td>11. We must be updated on Neighboring regions</td>
<td>49</td>
</tr>
<tr>
<td>12. The Culture of Mediation in Georgia</td>
<td>54</td>
</tr>
</tbody>
</table>
Ethnic Identities and Civil Integration in Georgia

Scientific ‘Recipes’ for Business People

Systemic Banking Crises Research: Lessons Learned for Future

The Ideal Tax Burden for Economic Development

Epidemiology of Primary Brain Tumors in Georgia

Fight Against AIDS Epidemic: Georgia’s Experience

Shota Rustaveli Institute of Georgian Literature at TSU

Andria Razmadze Mathematical Institute at TSU

Science and Humanities for Children

From the TSU Library Treasury...

The Dissertations Defended at TSU Faculties in 2011

From editions of TSU Press 2011
Dear reader,

It is a huge responsibility to be the first University in Georgia and in the Caucasus. Since the day of its establishment in 1918, the Ivane Javakhishvili Tbilisi State University (TSU) has been performing the function of both educational and internationally important scientific center. TSU spares no efforts to continue this tradition properly.

Today the University is facing new challenges – along with preserving its traditions, it should withstand the requirements of the 21st century and be competitive on the international scientific market. Here, the quality of a scientific product is determined not only by the researcher’s skills and abilities, but also by many other factors. According to the established stereotypes, new standards leave small countries like Georgia beyond the scientific achievements. Though, the processes taking place at the Ivane Javakhishvili Tbilisi State University break these stereotypes. Therefore, we believe that the society should know more about them. Just this is the goal, which our new project - a bilingual scientific-popular journal TSU Science - serves.

In the first edition of the journal we deliberately refrained from talking about the past. The readers have an opportunity to get acquainted with the current developments at the University: information on recent researches, which have already triggered international interest – they have received research grants; various articles about them have been published in various top scientific journals; frequently, these researches are the outcome of successful international scientific cooperation; the readers of TSU Science will also have an opportunity to get acquainted with the scientists - people, who created the Georgian and world scientific capital, are honorary members of the 21st century international scientific circles. We will also introduce scientific institutions, the integration of which since 2010 has much strengthened the University’s scientific potential; you will also get acquainted with the scientific databases existing at TSU.

The first edition lists only a small part of scientific processes ongoing at TSU. This is only the beginning. The journal will be issued twice a year and will try to deliver latest scientific novelties to the readers in a popular language.

Alexander KvitaShvili
Rector of Ivane Javakhishvili Tbilisi State University
საქართველოს ივანე ჯვარიშვილის უნივერსიტეტი - თბილისის საქართველოს სამეცნიერო უდიდესი უნივერსიტეტი (თუ), კრეატიურული ანატომიის სამეცნიერო უდიდესი უნივერსიტეტი ანობით, საქართველოს უნივერსიტეტი (ქართული ენა). ნოთატან უნივერსიტეტის მიღებად, თბილის ივანე ჯვარიშვილის უბრალი უნივერსიტეტი (თუ) რამდენიმე გულდროილი სახელწოდებით, როგორც მეცნიერი, სამეცნიერო და საქართველოს სამეცნიერო უდიდესი უნივერსიტეტი, საქართველოს საგვიანებელი უნივერსიტეტი, უნივერსიტეტი პირველი ცხოვრების ხანგრძლივობით, ტუ - ჯავჭი ალექსანდრე ახალი, იოჰან და ადამე კემპინი, ალექსანდრე იმრეტიძე დ. ა. არტეგი, როდერიქ ჯარის პრაქტიკა საქართველოს საფკლებო-საგანშრომო უნივერსიტეტი განვითარება, ანდრე ჯობი სამეცნიერო აზერ巴იჯანი, იაროს გრანტთა და დოქტორა ალექსანდრე კრისტი მთლიანი მეცნიერების საფოსტავო და მათი განვითარების თხზული გამომძღვარება და დაფინანსების შემდეგ საქონლი მართვაშიც.

ხასიათის სისტემით:


2011 წლის უბრალი უნივერსიტეტის თბილისის რაიონის ჯილდო სამეცნიერო უნივერსიტეტი - თბილისის უნივერსიტეტი (თუ), საქართველოს სამეცნიერო უბრალი უნივერსიტეტი 14 მოქმედი 054 746 ლარი (მოქმედება, 09%); თუ-ის პირველი ცხოვრების ხანგრძლივობა, ჯავჭი ალექსანდრე ახალი, იოჰან და ადამე კემპინი, ალექსანდრე იმრეტიძე დ. ა. არტეგი, როდერიქ ჯარის პრაქტიკა საქართველოს საფკლებო-საგანშრომო უნივერსიტეტი განვითარება, ანდრე ჯობი სამეცნიერო აზერ巴იჯანი, იაროს გრანტთა და დოქტორა ალექსანდრე კრისტი მთლიანი მეცნიერების საფოსტავო და მათი განვითარების თხზული გამომძღვარება და დაფინანსების შემდეგ საქონლი მართვაშიც.

The Dinamics of TSU projects according to years

<table>
<thead>
<tr>
<th>Year</th>
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<td>2006</td>
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<td>200</td>
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<td>2010</td>
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</tr>
</tbody>
</table>

- თუ-ის სამეცნიერო უბრალი უნივერსიტეტი და განვითარების საფოსტავო და განვითარების შეფასების ხელმძღვარ, ორაბი-პირველი საქართველოს სამეცნიერო უბრალი უნივერსიტეტი დედამიწასთა დომინანტური როლი, როგორც საფოსტავო და განვითარების შეფასების ხელმძღვარ, თუ-ის პირველი ცხოვრების ხანგრძლივობა, თუ-ის პირველი ცხოვრების ხანგრძლივობა.
The first university in Georgia and Caucasus – Ivane Javakhishvili Tbilisi State University (TSU) traditionally reflects the level of scientific development in the country. During its century-old existence numerous universally recognized scientific schools were established at TSU. The establishment and development of these schools have turned TSU into a scientific center of regional and international importance in many directions. TSU has a healthy ambition to be a leading research center both in Georgia and throughout the region as well as to take a worthy place in the world scientific-educational space. This ambition is maintained by the recent statistics as well as by the steps planned and taken in terms of scientific management.

**Scientific Statistics**

The statistical analysis of scientific activities for 2009-2011 academic year at the Ivane Javakhishvili Tbilisi State University shows that presently over 200 scientific projects are being implemented at TSU, including 148 national and 85 – international.

The University’s budget for 2011 envisages GEL 14 054 746 (29% of the budget) for scientific researches, including GEL 4 154 104 (9% of the budget) has been attracted from international and national foundations. According to **ISI Web of Knowledge**, 105 articles of the Tbilisi State University were published in the scientific journals with impact factor in 2009, and 145 – in 2010.

General statistics of scientific projects funded by the Shota Rustaveli National Science Foundation confirm the prevalence of TSU over other educational and scientific institutions of Georgia. The list of the first three institutions having received scientific grants from the national foundations in 2009 looks as follows:

- TSU – 29 grants;
- Iilia State University - 11 grants;
- State Agrarian University of Georgia – 8 grants. Moreover, the list of the first ten institutions also involves those higher educational institutions, which joined TSU in 2011, as a result of which TSU’s scientific potential has further strengthened (see chart No 1).

Number of submitted projects and percentage ratio of financed projects in the submitted projects has significantly increased over the last years. If 104 scientific projects were submitted from TSU to the Georgian scientific foundations in 2009, in 2011 their number increased up to 312. Furthermore, 12% of projects submitted from TSU were financed in 2006; 16% – in 2007; 21% – in 2008; and 22% - in 2009 (see chart No 2). We expect more projects to be financed in 2011.

**“Presence of Flexible Scientific Management – an Essential Condition”**

Gigi Gvedeshvili, Head of Department of Scientific Research and Development at TSU, talked with “TSU-Science” about the University’s scientific achievements and plans.

- **What is the key goal of the University as of a research center?**

  - The key goal of the research university is to promote the implementation of knowledge, quality and result-oriented scientific researches. Naturally, the University should prepare highly skilled specialists, who are in demand on modern market, who are interesting not only in the country, but also abroad. From this point of view, integration of research and educational processes is one of the most important issues, because on the one hand, the educational activity already involves deep scientific-research foundation, and on the other, only well-adjusted educational system can provide the delivery of knowledge
Giorgi Gvedashvili - Head of Department of Scientific Research and Development at TSU; Associate Professor at the TSU Faculty of Exact and Natural Sciences; Ph.D. in Physical and Mathematical Sciences; Member of the Institute of Electrical and Electronics Engineers (IEEE); Research staff/Leader of 14 scientific projects; Author and co-author of approximately 45 scientific articles; Holder of 7 local and international awards, diplomas and certificates.
and the establishment of all those skills, which are so necessary for scientific researches to provide the continuity of scientific development. Accordingly, the University spares no efforts to have a flexible and well-measured scientific management, which will encourage and attract scientific potential and try to promote it as much as possible.

- In what form?
- Through improving its material-technical base, co-financing, assisting in proper technical preparation of projects, providing information-advisory services, etc. According to the current data, TSU is an unconditional leader; over 200 scientific projects are being implemented here, including both national science foundation grants and international projects (CRDF/GRDF, NATO, SCOPE, STCU, ISTC, EU FP7, DFG, DAAD, TEMPUS, etc); 63 doctoral works were defended in 2010. The TSU budget for 2011 envisages 29%, particularly GEL 14 054 746 for scientific researches.

One more factor – everybody knows today that scientific institutions have integrated into the University. Naturally, the University’s scientific potential has much increased due to this fact (see “scientific statistics”).

- How much do the researches conducted at TSU meet the 21st century requirements? Are TSU scientists competitive on the international scientific market?
- Any financed scientific project (national or international) already means high assessment from a foreign expert; thus, the researches conducted at TSU are definitely recognized. One of the indicators to assess scientists’ qualification is their involvement in international projects. The fact that a lot of Georgian scientists work for famous foreign scientific centers also points to high potential of Georgian scientific schools. For example, a project Atlas is being implemented at CERN, where Georgian scientists are doing tremendous work in terms of both engineering and merely fundamental research. The High Energy Physics Institute and the Physics Institute at TSU are both actively involved in this project.

One more factor – probably, we should not have an ambition that everything is at a top level here, but we should remember that we suffered regress in the eighties and nineties of last century. Of course, 105 and 145 published scientific articles per year is not a high parameter, but it is higher than elsewhere and the dynamics is quite good. We believe that the presence of flexible scientific management in this direction is an essential condition.

- What has been done over the last years to improve the management?
- As you know, the State took an important step to support applied researches. The competition announced by the National Science Foundation of Georgia for applied researches was a step towards financing such researches. One of the key demands was the necessity of co-financing. The University has co-financed absolutely all the projects (by 15%). If these projects receive financing, the University will co-finance them. Naturally, this is not very large-scale financing, but this is the first precedent when the University will co-finance all the projects. Moreover, our department carries out preliminary technical monitoring – expertise of the projects. We do not interfere in a scientific part. We simply assist scientists to ensure that their...
ideas, their projects are technically sound and drafted in line with the terms of competition.

I would like to say that just for this purpose we created a special course for doctorates – science management. This is a selective course and is designed for the doctorates of all directions. In frames of the course the following topics are discussed: bibliography, research indicators, how to write a good article, a good grant project, how science is assessed, etc. This course is quite popular. About 100 doctorates undergo registration during each semester. In future we plan to make this course more available and to provide it in English too.

- **As far as the technical base is concerned...**

- Several large grants were attracted to the University during last years and several good experimental bases were created with biologists, physicists, chemists. I cannot say that we have a very comprehensive base, but we have purchased such apparatus, which is necessary for international-scale researches. Naturally, there were infrastructure projects. In 2009, we equipped the laboratories of the Faculty of Exact and Natural Sciences. The administration will again try to search such projects in future in order to further improve the material-technical base. Simultaneously, the involvement of scientists is rather important – each applied research, each project needs certain technical equipment and this base is being supplemented from separate grants.

- **You have especially focused on applied researches. Does it mean that the promotion of applied researches is one of TSU’s priorities?**

- Why I focus on applied researches – all leading countries, which have created technology-based economy, have passed through this road. As far as you know, technology-based economy means production output based on technological researches. What is the University’s role in this case – University creates new knowledge, intellectual property and technologies; and this, in turn, is a precondition for emerging a new technological company and new products on the market. The University attracts and creates highly skilled personnel needed for a high technological company; on the other hand, the company tries to draw closer to the University and gain its foothold among the University’s scientific circles. Thus, the so called start-up companies are being established with the University frequently being one of the founders.

All the successful countries have passed through this road. The future of our country passes through increasing number of engineering-technological researches and producing high technology products. A TechnoPark, where the researches and commercialization of research results are carried out, should serve this purpose.

- **How real is it to develop TechnoParks? Are Georgian companies ready for it?**

- There is no such complete readiness so far. We had several meetings; two or three years ago we arranged an exhibition of such projects. We are trying to keep step with these requirements. We should try to interest existing companies. Simultaneously, new companies should be created that will implement innovatory projects and create products.
Many Suns Instead of One

A new-type solar energy concentrator created by the scientists from the Tbilisi State University (TSU) appeared among the top 50 projects winning the competition held by the World Bank’s Info-Dev in May 2011. A total of 750 projects participated in the competition involving scientific information projects. Furthermore, the innovation of Georgian scientists was ranked among the 20 best at the 4th Global Forum on Innovation and Technology Entrepreneurship held in Helsinki, Finland in 2011.
Nina Khuchua – Head of the TSU Scientific Department (Electronic Techniques); Ph.D. in Physical-Mathematical Sciences; number of publications – 64, including in journals with impact factor – 31; number of inventions – 4; participation in international scientific forums – 15; manager of 6 international scientific grant projects.

Revaz Melkadze – Manager of the TSU Scientific Department (Electronic Techniques); Ph.D. in Physical-Mathematical Sciences; number of publications – 47, including in journals with impact factor – 20; number of inventions – 1; participation in international scientific forums – 15; head of 6 international scientific grant projects.

Alexander Moseshvili – Consultant at the TSU Faculty of Exact and Natural Sciences; specialty – engineer; number of publications – 1; number of inventions – 1; participation in international scientific forums – 1; participation in international conferences – 2.
A scientific-industrial complex (SIC) Electronic Techniques is located at the Tbilisi State University’s Building No 8. Probably, one can hardly imagine that the Research Institute of Micro and Nanotechnologies at the Tbilisi State University has a unique laboratory in this old building, which works in various branches of electronics, including on the creation of integral schemes and semiconductor optoelectronic devices. SIC Electronic Techniques is led by Ms. Nina Khuchua, doctor of physical and mathematical sciences. In 1995-2009 Electronic Techniques implemented six international projects with the financing of the following programs: Science for Peace and Security (SPS) NATO; International Science and Technology Center (ISTC); and Science and Technology Center in Ukraine (STCU).

Creation of solar batteries is one of the directions of activities carried out by the scientists from the scientific-industrial complex. They have close contacts over this issue with engineer-inventor, Alexander Mosashvili, who patented an idea of creating a new concentrator system of solar energy in the United States 12 years ago.

Converting sunlight into electricity is one of the most important issues throughout the world today, as it is ecologically clean energy. Many countries, including the United States, Germany, Spain, and Japan are spending a lot of money to generate a source, which will have as high energy conversion efficiency as possible and as low cost as possible. Solar energy is converted into electricity through a solar cell, the production of which requires the use of quite expensive technology. And this increases the cost of the key parameter of solar cells used on the earth, particularly 1 watt of generated energy. Today the cost of 1 watt is USD 3. But as far as active researches are being conducted in this direction, scientists suppose that soon the cost of 1 watt “will be reduced” to USD 1. One of such directions envisages the use of concentrator system. This system is an optical device, which concentrates solar energy in one “point” and it is possible to obtain an optimal result with few active solar cells.

Although all these have been proved theoretically, actually only an experimental sample has been made, which should come closer to industrial technology. “It is necessary to make a prototype, i.e. a pilot sample, and subsequently to produce solar cells on the basis of this sample,” Nina Khuchua, the head of the scientific-industrial complex, says.

During the international conferences held in Spain and Italy in 2005-2007 the invention by Georgian scientists was described as an absolutely new approach in this sphere. When asked what the main difference between the existing samples and the Georgian scientists’ invention is, Dr. Revaz Melkadze said: “Compared to other types of concentrators, Alexander Mosashvili’s construction has over 10 advantages, particularly: it is possible to create an optical part with an integral method; it reduces the width up to 5 cm as well as the weight of solar cell, etc;

The concentrator can concentrate sunlight 1000 times and more (lenses and metal mirror reflectors are used). And this enables us to reduce the total area of active semiconductor solar cells that significantly reduces its cost.”
Physicists say that at the beginning it would be better to use a new solar battery for the construction of power plants rather than in the houses or household conditions. The parts of optical concentrator should be made at a high professional level. Therefore, these parts will be made abroad, for example at Swiss AWN; solar batteries will be produced in Georgia, particularly at Electronic Techniques, while certification of this module will take place abroad – particularly, at the Fraunhofer Institute for Solar Energy Systems in Freiburg. Director of SolColEnergy Giorgi Melikidze is implementing business plan and organizational issues for further commercialization of the research results.

Along with allocating a grant to the Georgian scientists in frames of the World Bank’s Info-Dev project in May 2011, they are also assisting Georgian scientists in attracting the investors. Owing to this grant, four specialists (N. Khuchua, A. Mosashvili, G. Melikidze, R. Melkadze) participated in a special meeting held at the Fraunhofer Institute for Solar Energy Systems in Freiburg. During the meeting Georgian and German scientists discussed all the details necessary for making solar battery prototype and signed a memorandum on mutual understanding.

“We have already thought of all necessary details, particularly what should be done to create this prototype and to determine the cost of this source of energy. It will be possible to talk about the cost only after the prototype is made,” Nina Khuchia says.

As far as the use of solar energy is concerned, today a conceptual organizational and technical base has already been created to commercialize the research results; however, financial investments are necessary to put the solar concentrator (CPV-module) prototype into production. According to the present data, the use of water energy takes the leading place in Georgia’s energy sector. However, the scientists suppose that solar energy will take a worthy place in our country in the near future.
Utilization of industrial waste and secondary raw materials as well as their purpose-oriented use is an important technical-economic reserve of any country. Hence, a lot of scientists are working over these issues throughout the world. The researches in this direction are being carried out under the guidance of Professor Nodar Lekishvili at the Tbilisi State University and some interesting results have already been obtained. For example, some compounds have been obtained through which it is possible to protect wooden, leather, plastic surfaces, as well as museum exhibits or archaeological samples against the influence of bacteria and microbes.
საქართველოს რეგიონების დამახასიათებელი ინტელაქტიული უნივერსიტეტის სამხედრო კარიერით სამსოფლიო დიდგენიშვილთა და ჰომელო დედაქალაქ ქართული ლიტერატური საკუთარ ქრონიკოშ ზოგიერთი უმეტესობა გამოცხადდა: ქართული სახელმწიფომ ჩანართის მიერ გამოეცემა სახელმწიფო დამრგვალ გამოცხადება სახელმწიფო პროექტზე. ისიც ქართული ლიტერატური სახელმწიფო საკუთარ ქრონიკოშ ზოგიერთი უმეტესობა გამოცხადდა: ქართული სახელმწიფომ ჩანართის მიერ გამოეცემა სახელმწიფო დამრგვალ გამოცხადება სახელმწიფო პროექტზე. ისიც ქართული ლიტერატური სახელმწიფო საკუთარ ქრონიკოშ ზოგიერთი უმეტესობა გამოცხადდა: ქართული სახელმწიფომ ჩანართის მიერ გამოეცემა სახელმწიფო დამრგვალ გამოცხადება სახელმწიფო პროექტზე. ისიც ქართული ლიტერატური სახელმწიფო საკუთარ ქრონიკოშ ზოგიერთი უმეტესობა გამოცხადდა: ქართული სახელმწიფომ ჩანართის მიერ გამოეცემა სახელმწიფო დამრგვალ გამოცხადება სახელმწიფო პროექტზე.
Three types of industrial waste and secondary raw materials are typical for Georgian regions:
Industrial waste from chemical enterprises; Waste from processing various natural raw materials; and Secondary raw materials, non-utilizable products or packages made of various polymeric materials (for example, polyethylene, polypropylene, polychlorvinyl, etc.).

Two main directions have been outlined concerning recycled waste: - The regeneration of precious compounds from industrial waste and the use of industrial waste as modifier and supplement for various composite materials.

For example, there is an important reserve of certain compounds in various forms from the waste in arsenic production. As a result, it is possible to receive cheaper, but important compounds with specific properties.

The direction in chemistry in which Dr. Lekishvili is working differs from other subjects since it studies the compounds of a certain specific structure with C-element bonds, such as arsenic, iron and other metal-organic and coordination compounds. These compounds have several important functions: for example, biological activity especially for medical purposes, catalyst functions and modifier functions. Their research also includes natural resources and industrial waste, extracting avant-garde hybrid compounds and materials with specific properties from them. Compounds obtained from arsenic waste are cheap and enable us to extract products and materials with interesting properties that can be used in optic fibers and pharmacopeia (e.g. in ointments). The compounds can also be used in anti-bio-corrosive protective covering for various materials.

According to Lekishvili wood, leather and plastic are protected from micro-organisms with compounds obtained from arsenic. There are over 300 microorganisms that damage surfaces made of these materials, and for which arsenic waste can protect them. Microorganisms that penetrate these materials absorb carbon, which finally leads to the bio-destruction of the materials. This amounts to several billion dollars of damages per year throughout the world. These substances have a number of important properties: they are optically transparent, visually aesthetic and resistant to impact. They protect surfaces against harmful microorganisms thus protecting human health.

Nodar Lekishvili says that as a result of this research a number of such composites were developed, used for anti-bacterial and anti-microbial protection of museum exhibits. It is also possible to protect archaeological samples. Khatuna Barbakadze, Lekishvili’s assistant who directly works on the formation of anti-bio-corrosive protective covers, keeps about 60 composites in the laboratory. According to her, this a product with great potential for protecting material cultural heritage.

“There are about 60 composites here; I have studied their formulas and prepared them on the basis of various polymers, and synthesized them. We have studied their typological properties and most of them give good results.”

However, to ensure that the research is put into practice in museums, Prof. Lekishvili believes it is essential to establish a small pilot enterprise where such protective composites will be produced. Then these composites can be transferred to museums and used appropriately for exhibits. Only one practical task is needed to introduce them, which, as Prof. Lekishvili claims, will take at least a year. “We have carried out observations on the composites created by us for use in the sun, the forest and other environments and they have not altered. They have neither changed in color, cracked nor swelled. These covers consist of two components – a matrix and a bioactive component.”

He said, “Since out of 300 species of bacteria, four types are the most common, we test our compositions, first and foremost, on these four types of bacteria.”

The international scientific society knows about the studies being conducted at Tbilisi State University. In March 2011 alone, Nodar Lekishvili participated in nine international conferences. He spoke on issues about industrial waste processing and its impacts on environmental and human health. Moreover, professional scientific magazines have published five articles on the Georgian scientist’s research. A 300-page monograph was published in the United States dedicated to these studies. “Avant-garde, Biologically Active, Polyfunctional Compounds and Composites for the Protection of Health, Cultural Heritage and Environment” – this is the title of the monograph, which directly reflects the theme on which Nodar Lekishvili and his assistants are working. Lekishvili...

სალაგონი იმავე სამუშაოსათვის გამოიღო ნინჯი ოპერაციით. ჰოლოდური სხეული გამოიღო არსენიქს სახეობს და არსენიქ- სისტემას, ნაქროლური საკვანძო სადგამების დამზადების მიმართ გამოიღო საკვლეხო ოპერაციით. ლოკალურ ქრონიკული სტატუსი ჩამოიტანა ამ გარეშე, მოცრება, რომ ამ ჰოლოდური სახეობის გაძლიერება მიმოქრობს სამსახურში საკვლეხო ოპერაციებს და მიმართებას. ამიტომ, მცირე შემაღალება იქმნება კონტორალურ საქმის მოქმედებაში.
Georgian wine is not only wonderful to drink but also, within reasonable limits, it is good for your health. Research by TSU scientists has reinforced Georgian winegrowers’ ancient beliefs regarding the qualities of Georgian wine. The Biophysics and Spectroscopy Laboratory affiliated with the TSU Faculty of Exact and Natural Sciences studied the medicinal properties of wine for 18 months. They worked on the project within the framework of the Shota Rustaveli National Science Foundation. The main aim of the research project was to find a method to calculate the antioxidant capacities of wine, in other words the ability to slow down the aging processes of the human body and the main antioxidants in wine. The scientists have discovered how to measure the effects of wine on health, a method very close to the biological procedures of the human body.
ჰორში ჯვარი კარგი ბორჯის ნინჯ წინამორჩეული ჭრილით ჭერის როლის შემდგომ. ამ შემდგომს ანტიოქსიდანტური პოტენციალი დამატებული გამომდინარეობს, რომ ეგვიპტური ანტივირუსული სუპერმორფიზმი დამატებული გამომდინარეობს. ძლიერი ჯვარი, რომლის პატარაქვს შთანთქმის ვარსკვლელი, ჯაშვი, სავარჯიშო ჯაშვი, მელანინური ჰუმინი, რომელთაგან უკრავი არის თავის ბუნებრივი არაგორმი, და პიში — ჯვარის დაკუნთვალ უსწორ- ლარარი.

მეგობრის ის ადგილმდებარე ანტიოქსიდანტური პოტენციალი გამოქმედება ტიპი გამოიწვიეს ღირსში. აღნიშნული შალარი, რომ უჯეშობიანობას რთული თემში შეიძლია მოციულობა. მაგალითად, ოქრო- როსი ანტამერთი, რომელიც მარტოთ გამოჰყურება მოვარდის ჭირიგმა და უფრო ბუნებრივი. ადგილით გამოქმედებით, ჯვარის დაკუნთვალ არაგორმი (ჯვარი) წინამორჩლი, სამშობლის სამოსიდან შესაძლო გამოიწვიეს ჩვენს ფაქტით ნინჯა და უფრო ბუნებრივი.

აერთიანებით, ჯვარის დაკუნთვალ სანავისავალ ჩვენმა რომ დაეკარგოთ. ამისთვის შეჩემილი გადაწყვეტილება ძალიან მაღალი ჯაშვის გადაწყვეტილება თავისი უფრო ბუნებრივი და უფრო თეთრი. ნამუშევრის პროექტით არ უნდა გამოვიყო ღირსში. ამ პროექტით არ უნდა გამოვიყო ღირსში. ამ პროექტით არ უნდა გამოვიყო ღირსში.

“ჯვარი ჯვარი ჯვარი ჯვარი ჯვარი ჯვარი ჯვარი ჯვარი” კულტურის მიღება დიდი ნიშანია. მთელია დამოუკიდებლობის შესახებ. ნამუშევრის პროექტით არ უნდა გამოვიყო ღირსში. ამ პროექტით არ უნდა გამოვიყო ღირსში. ამ პროექტით არ უნდა გამოვიყო ღირსში.
The head of the scientific project, Doctor of Biological Sciences, Associate Professor Eduard Chikvaidze explains that the wine's antioxidant potential depends on several factors: grape variety, the region where the vineyard is located, climate conditions and wine making techniques.

“We became interested in the study of the antioxidant capacity of the Georgian wine some time ago. It has been shown that flavonoids (a type of polyphenol which are biologically active admixtures good for health) are found in abundance in grape skins and pips. In consequence, the Georgian wine making method, especially Kakhetian, is better than European wine making methods in terms of preserving the useful ingredients in wine. In Kakheti, wine is made of ‘chacha’ which is the ‘must’: grape skins, stems and pips. However in Europe wine is pressed and immediately separated from grape skins and pips,” he said.

The Biophysics and Spectroscopy Laboratory affiliated with the Physics Department of the TSU Faculty of Exact and Natural Sciences developed a method of measuring the wine’s beneficial compounds at every stage of wine production. As Chikvaidze states, “Years ago, we adopted the EPR method of measuring antioxidant capacity using electric paramagnetic resonance to measure the antioxidant capacity of wine against Frémy's salt. This method is widely used in Europe. The EPR method proved that Georgian wine possesses much more antioxidant properties than European wines. However, among the methods tested, we did not consider the EPR method significant enough. The antioxidant capacity should be measured against the existing radicals in the body rather than against Frémy's salt. Accordingly, we decided to adopt a completely new method – measuring the capacity of hydroxyl radicals with so-called spin traps (which catch active radicals and give an EPR spectrum). Our new approach is rather difficult in comparison with the Frémy's salt method as it requires a number of preparatory and experimental work tasks. However, this new method can be equally successful for studying beneficial properties in tea, cognac, and any other drink or natural liquid.” The university researchers are certain that the new method will be particularly important for wine makers as it enables the producers to control the preservation of maximum amount of antioxidants.

Within the project framework, products of different Georgian wine making companies were examined. According to the project manager, Doctor of Chemistry, Nikoloz Shakulashvili, scientists studied not only the products of the larger companies participating, but also wine samples of small-scale entrepreneurs and factories producing wine in ‘kvevri’ (underground, Georgian earthenware container where wine is placed to age) according to the distinct traditional Georgian method. During the project implementation, there were close negotiations with professional and qualified winemaking technologists of the participating wine factories. Among participants were ‘Chateau Mukhrani’, ‘Kindzmaraulis Marani’, and ‘Vazi Plus’. The findings of the TSU project turned out to be very useful for the majority of participant wine makers.

Chief technologist of the LTD ‘Kindzmaraulis Marani’, Teimuraz Gorgijashvili, stated: “Recently, besides organoleptic indicators, the calorific value and health benefits of wine have taken on great importance. One of the most important customer requirements in modern wine making is stable and high quality wine production. To achieve this, a product should be treated with different substances, technological operations (thermal filtering), etc. During these preoperational procedures, wine undergoes serious physio-chemical changes. Research shows that the preoperational procedures seriously decrease the amount of antioxidants in wine. Accordingly, our company has minimized the use of substances and procedures that reduce antioxidants in wine. Furthermore, at this time our company is carrying out research to eliminate the use of such substances.” It must be noted that ‘Kindzmaraulis Marani’ recently received a Grand Prize and the Gold Medal at the Hong Kong Wine Competition.

According to the TSU laboratory scientists, the outcome of the research is not only scientifically, but also commercially, important. Scientific proof of the healing properties of wine is another indicator of high quality. This scientific proof could well become vital for the popularization of Georgian wine. According to the scientists’ recommendations, wine producers can provide information on the healing properties of Georgian wine on labels. It is possible to provide a short explanation of the wine’s ingredients and the benefits of each ingredient on the label. This approach would be an effective advertisement for Georgian wines, and several wine making companies participating in the project are planning to use this advertising method in the near future.

Regarding the project, the co-owner and Director of ‘Vazi Plus’, Bachana Khalvashi stated, “We took part in the project to learn about the health benefits not only of the wines our company produces but also of Georgian wines in general. Our ancestors knew the benefits of ‘churis gvino’ (wine aged in earthenware kvevri) over other wine technologies. The scientific reinforcement of this ancient wisdom is important. I believe that the significance of this project means it should be provided with further financing.” The TSU Biophysics and Spectroscopy Laboratory has already applied to the Shota Rustaveli National Science Foundation for funding to carry out more practical tests. Indeed, an article on this key research will soon appear in the American scientific journal Agriculture and Food Chemistry.
ქართული ფიზიკოსთა გარდაქმნის როგორებიდან
- CERN მსოფლიოს უდიდესი ლაბორატორია, კვლევების და გამოცდილების ცენტრი. იქ ეროვნული მაღალდონის უდიდესი ადგილია, სადაც ახალი ცვალებების გამოცდილებებს წარმოადგენთ. კვლევებს შეემატა CERN-ის ათეული სახეობით სხვა მსოფლიო ქალაქიდან.

Georgian Physicians’ Path from Tbilisi State University to CERN

ქართული ფიზიკოსთა გარდაქმნის როგორებიდან
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The Centre Europeen pour la recherche nucleaire (CERN) or the European Organization for Nuclear Research is the biggest physics laboratory studying elementary particles. One of CERN's main objectives is to study high energy physics and other experiments in the Centre's enormous underground atomic particle accelerators. CERN is currently carrying out four important experiments including ATLAS and COLLIDER physicist. Currently, there are about 3000 scientist/employees at CERN. CERN invites approximately 6500 scientists and engineers from 50 universities and 80 countries to collaborate on different projects. These include Georgian physicists who have graduated from Tbilisi State University’s Physics Department and work both for TSU and physicist CERN.

One of these is Professor Jemal Khubua, who is International Relations Advisor to the Faculty of Natural Sciences at TSU and collaborator at CERN and at the Joint Institute for Nuclear Research in Dubna, Russia. Dr. Khubua described the history of CERN and assisted us to contact Georgian scientists who participated in the conference "Physics in the Age of the Large Hadron Collider" held at TSU in Autumn 2011. According to Professor Khubua: The world realized the importance of founding an international research institute of high energy. This decision was initiated by two factors: first, research in physics needed huge funds and some countries were unable to provide them. In consequence, the threat of wasting the intellectual capacity of weak countries became apparent. Secondly, the events of nuclear disasters in Hiroshima and Nagasaki showed the world that atomic research cannot be a possession of only one country. Atomic research must be transparent for all countries. Thus, CERN was established by 12 countries on September 29, 1954 (today this number has risen to 22). Due to the Cold War the world was divided into two parts and thus the Joint Institute for Nuclear Research (JINR) was established in Dubna, Russia within a year of CERN's creation. The Joint Institute for Nuclear Research comprised 16 socialist countries including the Soviet Union, and Georgian physicists were among the representatives from the Soviet Union.

After the collapse of the Soviet Union, JINR in Dubna was the first international organization that Georgia joined as an independent country in 1993. Currently, Georgia is among 20 member countries of JINR (Dubna). This partnership kick-started other collaboration. As there are no borders in science, the issue of establishing close relations between JINR and CERN was placed on the agenda. After their independence, Georgia instantly expressed its interest in liaising with CERN. JINR actually provided Georgia with support in its attempts to form relations with CERN. In 1994, because of the JINR...
(Dubna) recommendation, Georgia became a member of CERN. CERN has two types of participants: member countries and non-member countries participating in experiments. Georgia belongs to the second category, as the members of the first category must pay a high fee.

Nothing is as vitally important as the current experiment with the 'Collider' which has been undertaken with the participation of Georgian scientists. Altogether 35 Georgian scientists work on different experiments and participate in a team of authors for peer review on scientific studies. There are 12 Georgian scientists in this group. The specificity of western experiments is that no country can claim the results as their own; instead the successes are credited to international collaboration between scientists.

Currently, research of an enormous scope involves 30 participating countries is being developed. The machine called the Hadron Calorimeter is used in the ATLAS experiment to measure the energy of generated particles and to determine the direction of scattered particles. Georgian physicists significantly contributed to the creation of this machine. Another machine created with the participation of the TSU Institute of Physics is the Muon Spectometer. In 2001 the CERN team was joined by specialists in computer design, who were supervised by Lasha Shermazanashvili. Overall Georgian scientists have made noteworthy contributions to CERN's activities and successes.

Jemal Khubua’s path to CERN began from the Faculty of Physics at TSU in 1957. After graduating he remained in the Department of Nuclear Physics. At that time, a High Energy Laboratory was being established in the department, which afterwards became the Institute of High Energy Physics. Khubua had been working at JINR (Dubna) and was the head of one of the large scientific departments there. He had also been working at CERN. Having successfully carried out an experiment on Hadron Collider, Jemal Khubua was awarded a silver medal as National Prize Laureate.

Leila Chikovani, Doctor of Physics and Senior Fellow at the High Energies Department of the Andronikashvili Institute of Physics recollects the first steps taken in the period of independent Georgia.

Professor Chikovani recollected that the first letter from a group of Georgian physicists was sent to CERN in 1993. Initially, the group consisted of employees from the Andronikashvili Institute of Physics and the Institute of High Energy Physics. Physicists Tamaz Grigalashvili and Jemal Khubua made a key contribution to bringing Georgia closer to CERN.

“We Georgian physicists wanted to work not only in the laboratory, but on physics specific problems. CERN agreed to our participation and from 1994 we began to work there. Our group started working even before Georgia officially participated in CERN's experiments. Initially the group consisted of many members, but later many of them faced material problems and they distanced themselves from science. Finally, only two of us remained – Tamar Jobava and I. Later other physicists joined us, including Ia Tsirikishvili, Maia Jobidze and Gvantsa Mchedlidze,” she recollected.

According to Chikovani, “Presently many good Georgian specialists work at CERN, but they often represent other institutes from different countries. In this case, it is very important that our group entered CERN directly from Georgia and represented Georgia itself.”

The group of Georgian scientists still visits CERN at least once a year and conveys their results; they participate in conferences and have systematic contacts with scientists from Atlas. Importantly, they control the equipment for twenty four hours in an interactive regime. Chikovani stressed that this work requires high performance Internet. According to her, Georgian physicists and Gia Dvali had requested the Georgian Government to establish a Georgian group of young physicists at CERN to work on the birth of micro black holes. Since a tax was imposed by CERN, the State would have had to pay a significant sum.

Chikovani recollects that Georgian scientists submitted a special project to the National Science Foundation of Georgia for at least minimum funding— about GEL 50,000 for this important project— but the request was rejected. Instead, Germans and Japanese snatched at the chance and were able to implement this world-famous project.

One of the first Soviet scientists who served at CERN was Giorgi Chikovani. The Georgian physicist was supported by CERN mainly for his invention—the Spark chamber detector. After only one year of working for CERN, however, this greatest of Georgian physicists, passed away at the age of 39.
თუ 1994 წელს გახდათ მოსოფელი საბავშვო პროშროლ თუნდაც გახდებათ CERN-ის სექტორურმა მოსამსპილე ტექნოლოგიის საოლქვრივო მომგება, ადგილობრივ და სამსოფლო და სამსაჯის შეჯიბრში არც ერთი ამ ტექნოლოგიის სქემაში და საუკუნო დამოუკიდებლობა გვხვდა. პასუხის საშიშო მოდიფიკაციები, საერთაშორისო, დაარსებით ირი ლოცვა - ეს და თანამედროვე ჯერამ. თუმცა, მიკუთვნება ახლა შემოგვძამებულმა როლებამ რომლების - უფრო იმპორტული, მათი ჟოხო, ვიზირება შეიცვალა - ისიც აღწერილა.

"ახმალე შოთა მდინარი ერთმანეთი საბარაყვით შეაფროა CERN-ის, მაგალითად თანმიმოდე, ოტაგოს სტუდენტებთან, სადაც სამსაჯის ბათქლები მოხდათ, აღმასრულდა ამ მოვალეობით მიღება, სამუშაოთა და ფიზიკურთა მიხედვით. მათი შემდგომი ტექნოლოგიური პერიოდი კი, რომ ჰქონდა ელექონიკური CERN-ის ჯგუფზე საბარაყვით შეაფროა და საუკუნო ჰშვილობა გვხვდა.

"ახმალე იყო 1995 წლის ჯანმრთიდან, როცა მოსამსპილე ტექნოლოგია და სამსაჯის შეჯიბრში არც ერთი ასწავლის მოსამსპილე ტექნოლოგია არ გამოიხატა. ახმალე ფიზიკურთა მსაჯის შეჯიბრში არც ერთი ამ მოსამსპილე ტექნოლოგია არ გამოიხატა.
The second Georgian physicist to work at CERN was Vladimir Ramishvilia who described his path to CERN in an article. “In 1957, after graduating from Tbilisi State University, I continued my post-graduate studies under the supervision of Giorgi Chikovani. In order to continue the collaboration with Georgia, CERN wished to have another Georgian scientist who would continue the work started by Chikovani. Luckily, I was the second Georgian scientist ever invited to CERN. I was 37 years old, and after one year, according to the decision of CERN, the experiment I was participating in, along with its machinery, was moved to the Institute for High Energy Physics (IHEP) in Protvino (Moscow region). Consequently, I was assigned to Protvino. Usually Soviet scientists got into CERN from IHEP but this wasn’t the case for me. Instead, I worked there on the Serpokhov accelerator for several years, then in 1972, CERN left the institute with all the machinery. This meant I did not have close contact with CERN for quite a long time, although I worked with some of the CERN scientists from time to time.

In 1990, liaison with CERN was renewed and the E. Andronikashvili Institute of Physics is still taking part in one of CERN’s experiments – under my supervision. I am also a member of the Collider experiment and sit on the peer review panel for publications. I visit CERN twice a year to cast my vote in choosing the Board and giving direction to the activities of the university.”

It concerns Vladimir Ramishvilia that Georgian scientists might not be able to work for CERN in the near future. “I would like to use this opportunity to kindly ask the people responsible for the development of science in Georgia for support. Presumably, LHC and CMS will be functioning for 20 years and several generations of Georgian scientists will have an opportunity to work on this brilliant machinery and carry out research in the field. Thus funds must be allocated to this so we can continue working on CMS” – states the 80-year-old scientist.

Most Georgian scientists serve at the world’s leading institutes. Despite working at CERN on behalf of those universities, they claim that they still remain Georgian scientists. Among them is the physicist Vakhtang Kartvelishvili who is currently working in Great Britain.

Vakhtang Kartvelishvili shared the story of his own rather challenging path to CERN. “After graduating from TSU, I spent three years in the Institute for High Energy Physics (IHEP) in Protvino doing my postgraduate studies. In 1995, I contacted my colleagues from the University of Manchester and found out that there was a temporary vacancy for a lecturer. I applied and obtained the position. As I learned later, my salary was financed by two sources – theorists and experimental groups. Despite being a theorist by profession, I had to work as an experimental scientist as well. Our task was to study the effects of detectors i.e. we had to find out what the detectors disfigured and what their original distribution was. This was a rather important issue and could not fully be determined mathematically. Then I offered the team my own method of dealing with the issue, which afterwards turned out to be quite successful. This work was published in 1996 and at present has been applied in more than 100 analyses.

My first contact with CERN took place earlier in Moscow. At present I am working on the ATLAS experiment and participate in several analyses which are mainly on Quarkonium physics (study of heavy quarks). I am also an associate employee of CERN and a lecturer at Lancaster University. Half my time goes to teaching activities and the other half doing research at CERN.”

Employee of the Center for Nuclear Research in Geneva – CERN—Professor at New York University and Director of the Max-Planck Institute for Physics, Giorgi (Gia) Dvali graduated in physics at Tbilisi State University in 1985. He obtained his PhD in theoretical physics in Tbilisi in 1992. In 2001, Professor Dvali received the New York City Mayor’s Award for Excellence in Science and Technology, and the Humboldt Prize (Humboldt Research Award) in 2008. The latter is equivalent to the Nobel Prize in sciences, and the Ministry of Education of Germany awards it to leading scientists. Gia Dvali works in the field of elementary particle physics and takes part in the Hadron Collider (LHC) experiment. Along with his colleagues, Gia Dvali strives to find answers to the questions on the structure and history of the universe.

“Science is an inseparable part and one of the most important ingredients of any country’s culture and development. It is beyond discussion that science must be developed in every country. For this, money and the establishment of correct priorities are needed. Advanced countries put a strong emphasis on science while developing countries do not. Science is vitally important for a small country as it can be a way to not lag behind other countries. Now science as become truly global in the XXI century. Globalization makes it possible, with the right approach, to maintain science with minimal expenses even for small countries. I believe that each country should place a high priority on the development of science” he said.

“T o be able to work at CERN, one must work persistently and very hard, as well as have talent and knowledge,” says Irakli Minashvili, Doctor of Mathematical physics who is currently working on managing the ATLAS Tile calorimeter detector and one of the supervisors of the support team. After graduating from Tbilisi State University, Irakli Minashvili continued his PhD studies in JINR in Dubna. “I entered CERN at the end of 1989 where we were in charge of a large unit – the electromagnetic calorimeter, electropositron and gamma-ray electromagnetic calorimeter. Since then I have collaborated regularly with CERN. We, the Georgian team from Tbilisi State University and the Institute of Physics have been actively working on the new ATLAS detector for seven years. The group of about eight Georgian scientists has made huge contribution in creating the Hadron Calorimeter needed for the ATLAS experiment. Generally, a number of Georgian scientists work at CERN—some as theorists and some as experimentalists. Our civilization knows
little about the creation of the universe. Obtaining this information will make it easy for us to think of a new field of science. The objective of CERN is to find out more about the creation of the universe and we, Georgians, are active participants of this world event." says Irakli Minashvili.

Sopio Pataraia is the youngest Georgian scientist at CERN.

"I completed my Master’s studies in atomic and nuclear physics at Tbilisi State University in 2005. I intended to embark on my PhD studies but the university did not offer PhD programs that year. While attending one of the conferences in Rome, my foreign colleagues informed me of some vacant places in Germany and Italy. After winning competition place, I was immatriculated at the Max-Planck Institute for Physics (Munich, Germany) where I studied for three and a half years with the university’s funding. After the graduation, I was once again short-listed and this time I myself chose Munich for my career. However, due to the immense importance of ATLAS, I decided to continue my career in Geneva. During that time, I made short study trips to Geneva. In 2009, I defended my dissertation on the Intensity of the Creation of Top Quark. After my PhD, I started working at the University of Wisconsin in Madison and affiliated with CERN. I have been working for CERN for two years now. It is like a big city. We, Georgian scientists meet together quite often. Once we discussed whether we are making a significant contribution to CERN and agreed that indeed we contribute significantly to this worldwide scientific initiative.

Just imagine, Georgian scientists, are working on three experiments out of four and they all have good positions. Actually, the merit of Georgian scientists has often been highlighted at CERN as well. A short time ago, Georgian teachers were invited to Geneva with CERN funding where they had a chance to learn about the Georgian scientists’ contribution to the organization’s activities. My three other group mates serve at CERN representing the world’s leading universities. Sadly, I am the youngest Georgian at CERN. Georgian scientists of younger generations have not arrived yet." – says Sopio Pataraia.

800 aspiring students enrolled in the Faculty of Exact and Natural Sciences at Tbilisi State University (TSU) in 2011, two times more than in 2010. This increase is a result of the new state educational policy and is a precondition for increasing the number of highly skilled staff and new generations of scientists at TSU.
Archaeological Expeditions at Tbilisi State University

The year of 2011 was very fruitful for Tbilisi State University in terms of archaeological discoveries, some of which are of significant cultural-historical importance. They were carried out in different parts of Georgia. Due to their immense significance, three of the expeditions are described here.

THE SHIDA KARTLI EXPEDITION

In 2008 a number of important discoveries were made during salvage archaeology digs at Grakliani Hill. According to the Director of the Institute of Archaeology, Professor Vakhtang Licheli, Grakliani Hill has already been established as important in international circles, and appears in scientific literature. Due to the significance of the discovery, articles on Grakliani Hill have been published in Holland. The Head of the expedition, Vakhtan Licheli has spoken on the discoveries at universities in Italy, Sweden, France, Great Britain and Spain. He said, “From 2008 until today more than 250 graves have been discovered and studied. Among the new discoveries, two temples are of particular importance. For the first time in the Georgian history of archaeology, the existence of a V-IV BC altar of special construction, that might have a connection with fire-worshipping rituals, has been discovered. When talking about Grakliani Hill we must point out two key circumstances. First, it is a multilayered archaeological site. Secondly, the south and east plateaus are well preserved and make an interesting site for tourists.”

Grakliani Hill is located at a main crossing point of the South Caucasus and could become a significant tourist attraction. According to the present plans, the site will be part of an open-air museum where interested tourists will have a chance to take part in excavations. Today there are negotiations for importing thermoplastic acrylic resin Paraloid® from Germany, which will be used to carry out conservation works on the newly discovered buildings.
2007 წლის ატაკოლტიური გამოჩენის დღისამოსო ჯგუფი, სოფელ ქვეყნში, აღმოჩენილა ანტიკური ხანის ხარჯილობის ბანი.

- ქვეყანაში გრაფიკი, რომელიც ხარჯილობაში ადგილი ამ წლის დღესთვის პროგრამული ადგილი შეადგინა, თუმცა ამავე ადგილში გრაფიკის შექმნა დღისამოსო ჯგუფში.

- ქვემოთ აღმოჩენილი ანტიკური ხანის ბანი ხარჯილობის ბანი.

- ქვეყანაში გრაფიკი, რომელიც ხარჯილობაში ადგილი ამ წლის დღესთვის პროგრამული ადგილი შეადგინა, თუმცა ამავე ადგილში გრაფიკის შექმნა დღისამოსო ჯგუფში.

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THE SVANETI EXPEDITION

During 2007 excavations in Svaneti, remains of an ancient mint were found in the village of Chuberi. According to scientists, during the Hellenistic period this mint produced coins from local gold nuggets with the likeness of Alexander the Great. Several patterns found at the site reinforce this hypothesis. Part of the VI-IV BC cemetery fields where the discoveries were made still have to be excavated, and archaeologists from the university will undertake these excavation works independently.

TSU-led archaeological excavations in Svaneti started in the first half of 2011. A set of excavations carried out by specialists and students of the Institute of Archaeology was intended as field training experience. As a result of these excavations some interesting fragments of archaeological monuments were found. Among them was a metallurgical stove (VIII-VII BC) discovered in the village Kveda Margha of the Chuberi Community. This is the first example of this type of artifact found in Svaneti. According to Zviad Kvitsiani, Head of the expedition and Supervisor of Bachelor and Doctoral programs: This discovery is of vital importance, as it alters the existing stereotypes about the region’s occupational activities. The existence of the metallurgical stove suggested that raw materials were found in the mountainous regions and then processed in lowland regions. Having discovered the smelting stove, along with its ceramic cooling pipes and other iron tools, tells us that agricultural and fighting tools were produced in the mountainous areas as well.

Archaeologists also discovered the remains of a glass workshop dating from I cent BC to I cent. AD in the Mulakhi Community, in the village of Artskheli; multilayered cemeteries in the Ipari Community village of Bogreshi (XV-IV and V-BC), cemeteries dating from the Middle Bronze Age (Etseri Community, village of Luha), mid-century settlements (Becho Community, village of Ushkhvaneri), and late mid-century grave fields (Etseri Community, village of Ubeti). Most artifacts previously discovered in Svaneti were found by local populations, and some are preserved at the Mestia Museum. Among them are broken spearheads, which again reinforces suppositions that tools were produced in Svaneti. According to Professor Kvitsiani’s theory, no one would have brought faulty tools from lowland areas; they must have been made on the spot.

Thanks to the Svaneti expedition, a number of artifacts possessed...
by locals, museums and churches have now been registered. People's verbal notifications regarding the locations of the discoveries, some of which were unexpected, were recorded. Most of the materials found by local people, mainly ceramic pieces, were given to the TSU Institute of Archaeology for registration and restoration.

According to the archaeologists' estimates the finds are of immense importance—not only for the history of Svanetian tribes but for other Georgian tribes residing across the Caucasus as well. The results also provide interesting historical information on Georgia's previous trade and cultural relations with neighboring and remote countries.

SAGAREJO EXPEDITION

According to scientists, the Ior-Alazani Pond is the only place in the central part of the South Caucasus where chapels of different sizes dating from the Bronze-Iron Ages have been discovered. These chapels were found within and outside of settlements. The study of the chapels, including St. Pshani's Chapel is vital for re-creating the stages of contemporary social structures. The discovery of St. Pshani's Chapel became possible when the Iori River flooded and then washed away its left bank in spring 2011. Specialists date the site from XIV-XIIIBC by examining the clay dishes and bronze daggers. In July, 2011, Chief Specialist, Kote Pitskhelauri was put in charge of the excavations.

Archaeologists believe that the materials found in the hunting complex of the Ior Groves is only a part of the Saint Pshani artifacts. The Pshani archaeological site is distinct from other chapels by its nature and size. As Professor Vakhtang Licheli states, Most important is the fact that the offerings discovered are mainly associated with springs. It is apparent that springs had a particular meaning and that rituals connected with springs were held for decades in the chapel. We must also consider the existence of a settlement near the chapel. Considering these finds we can surmise that we are dealing with a socially and economically developed society.

To quote the Head of the excavations, Kote Pitskhelauri, Ritual materials discovered near the Pshani Spring are the offerings of various types. We can find bronze jewelry, working tools and a large number of clay dishes of different sizes and shapes. Among the finds, there is a clay dish 'Marani' that was presumably used for storing wine or beer. According to archaeologists the chemical treatment of the inside of the dish 'Marani' that was presumably used for storing wine or beer.

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Saint Pshani Temple, Kakheti, small goblets
Scientists at Tbilisi State University have been investigating new applications of scientific instrumentation and methods of measurement from the fields of chemistry and physics to enhance the accuracy of the dating system used in archaeology. As a consequence of recent research, the Director of the Institute of Archeology, the faculty of Humanities, Full Professor, Vakhtang Licheli and Associate Professor at the faculty of Physical and Natural Sciences, Temur (Anatoli) Akhalkatsi state the following:

"Present-day archaeologists are developing the capability to forecast their own evolutionary future as well as the development of other peoples' lives on the basis of past historical facts and the latest tools and methods of archaeological investigation. Nowadays, archaeology increasingly relies upon the fields of paleomagnetism of the earth, disease dynamics, paleoclimatology to assist them in their exploration of the past.
There are several methods of dating in archeology varying from the traditional, relatively typological method such as stratigraphical and seriation studies to dendrochronology. Nevertheless, there are cases when none of the common dating methods is effective. When the reliability of the traditional methods for dating artifacts is doubtful, specialists in chemistry and physics can lend their expertise to the process of analysis. Scientific collaboration with physical and natural scientists has yielded promising results in the following areas:

- Radiocarbon dating method, which is particularly useful for dating the remains of biological remains and living creatures. This technique compares the contents of C14 decaying radioactive isotopes of specimen with stable carbon isotopes of the atmosphere. By comparing the about of C14 in a dead organism to the available levels in the atmosphere, the scientist is able to estimate when the plant or animal substance died. However, this method may give serious inaccuracies in dating if the artifacts have been contaminated with other organic substances.

- Electron Paramagnetic Resonance (EPR), measures the density of electrons captured with radioactive irradiations after the remains have been buried. The captured electrons normally accumulate in bones and organic remains for a period of time (107 years) as a consequence of the tooth enamel’s high density decay (in terms of magnetism – paramagnetic ions and centers) is stored for a long time. It is noteworthy that EPR is the most effective method of dating organic artifacts.

- Rehydroxylation dating (RHX), a new technique, which is used for dating ceramics and terracotta artifacts. The main components of the clay are complex oxides of aluminum and silicon which tend to combine chemically with water. During the firing process in the kiln, the ceramic item loses the entire amount of water, but when ceramic artifact is removed from the kiln, it begins to recombine chemically with the moisture in the environment, thus increasing its weight. This increase of weight makes it possible to calculate how old the sample is. Nevertheless, there are cases when none of the common dating methods is effective. When the reliability of the traditional methods for dating artifacts is doubtful, specialists in chemistry and physics can lend their expertise to the process of analysis. Scientific collaboration with physical and natural scientists has yielded promising results in the following areas:

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EPR spectrum of the tooth enamel is relatively specific. The sample needs prior mechanical cleaning, and to get rid of additional admixtures, it has to be treated in 0.1 N HCl solution, washed with distilled water and then dried. Afterwards the sample is carefully crumbled and passed through the sieve to prepare 0.1–0.22 mm powder. As a result, the outward form of the sample is destroyed through sample preparation and only electro paramagnetic spectrum necessary for dating remains. See the EPR signal form below.

According to gamma dose, the EPR intensity signal increases in a linear way to some specific size. Dating with good precision becomes possible by considering the presence of annual dose and by extrapolating the dependence observed in linear area.

In the past two years at I. Javakhishvili Tbilisi State University, a series of experiments were carried out by Vakhtang Licheli and using the EPR method were carried out on the tooth samples taken from different graves, whose age was more or less known through stratigraphical methods. These patterns were found in Atskuri and Urbnisi dating XVII–XVI BC; IV BC and IV–V AD; IX – VII; XIII centuries. After having a sample of each of the teeth properly prepared, the EPR spectrum of each sample was taken without any irradiation. According to the results, we set the dependence of integral intensity on the time period the patterns were dated. As it is seen from the graph, the older the grave is, the longer tooth enamel experiences the dose effect, which means that the more EPR signal intensity is found.

The dependence that is explained above and was established for the first time by the investigators, is shown in the graph below. As seen, the results are fascinating. If the calibrated EPR signals for the specific patterns are available, rather precise dating can be carried out. The merits of this research method were acknowledged at the international conference dedicated to the 80th anniversary of Academician Otar Lortkipanidze in Tbilisi, 2010 and has been published as thesis.

The research was conducted at the I. Javakhishvili Tbilisi State University with the participation of Vakhtang Licheli, Temur Akhalkatsi, Eduard Chikvaidez, Tsisana Gavasheli and at the El. Andronikashvili Institute of Physics with the participation of Grigol Mamniashvili".

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Georgian Literature in European Sciences and the Latest Achievements in Kartvelology
მარაგორჩილებაში მინიჭებული ნიშნი ქართული ლიტერატურაში: ქართული უმაღლესი სტუდენტების ფოლოვანი ფრაგმენტებმა და ახალი უნივერსიტეტის მეხუთე გოგონის ჰაბიტატი, გარემოს ორიენტაციის სივრცეში. ქართული ლიტერატურის ისტორია უდიდესი ნაწილი ჰქონია ქართულ არხეგრამებში.

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Until recently scientists believed that the unique literary epic, The Knight in the Panther’s Skin by Shota Rustaveli, appeared in Europe in the 19th century.

By studying European sources, the Georgian scientist, Elguja Khintibidze discovered that The Knight in the Panther’s Skin was found in Europe, particularly in England, as far back as the early 17th century. Most importantly, it was used at the Shakespeare Theatre, and known within England’s most progressive intellectual circles. Shakespeare’s contemporaries, Francis Beaumont and John Fletcher, wrote two plays that were very popular in the 17th century called A King and No King and Philaster. This discovery is quite important for both kartvelology (the study of kartvelian languages and cultures, including Georgian) and English literary studies. One of the key goals of Elguja Khintibidze’s English-language monograph published in London this year (The Knight in the Panther’s Skin by Rustaveli and European Literature, London, 2011) was to unveil and introduce this new discovery. In his most recent research the scientist tries to explain how the story about The Knight in the Panther’s Skin appeared in Europe as early as the late 16th century.

This is only one of the discoveries by the Georgian scientist, based on 15 years of study carried out by a group of Georgian researchers under his guidance, to discover how Georgian literature is studied in Europe and what has been translated from Georgian to the European languages.

“Actually, I have been working on this problem for 15 years already. In the second half of the 1990s we received a NATO grant. This grant rendered an invaluable service to both kartvelology and European literature,” he said. The last chapter of Khintibidze’s monograph prepared within the framework of that project concerns the scholarly value of research on Georgian literature in Europe. It is posted on the NATO website (www.nato.int/acad/fellow/94-96/ elguja/03.htm). The book – Georgian Literature in European Science – was published in Amsterdam in English. Ariane Chanturia is the author of the English version and it is the first time that a bibliography has been published on what has been translated from Georgian literature to English, French, German, Italian, etc. and all materials are included through the 1990s. After the English edition, the book was also published in Georgian and it is now used to deliver Master’s Degree courses at the university.

The following group of scientists led by Elguja Khintibidze worked over the creation of the monograph and bibliography: Ariane Chanturia, Marika Odzel, Maka Elbakidze, Gaga Shurgaia, Sesli Goaiberidze, Neli Saginashvili, Greta Chantladze, Kakha Loria, and Bela Tsipuria, as well as their students Eka Macharashvili, Tamar Pataridze and Maia Orkodashvili. The following foreign scientists cooperated with the Center for Kartvelian Studies for the preparation of bibliographical materials: Steffi Chotiwari-Jünger, Michel Van Esbroeck, Heinz Fernich, Katherine Vivian, David Barrett, Robert Thomson, Donald Rayfield, Bernard Utie, Gaston Buachidze, Luigi Magarotto, and Frederick Thorlason. As a result of this comprehensive research on European sources, Elguja Khintibidze revealed yet another novelty of Georgian literary historiography: Georgian scientists supposed that Georgian literature would definitely have
Elguja Khintibidze – Full Professor at the TSU Faculty of Humanities; Research Director at the Center for Kartvelian Studies; PhD in Philological Sciences; corresponding member of the Georgian Academy of Sciences; member of several professional and public organizations (Belgium, Great Britain, USA); author of over 200 works, including 18 monographs; head of tens of grant projects; participant of the scientific forums worldwide; holder of the Ivane Javakhishvili Prize (Tbilisi); International Order of Merit – IOM (Cambridge); Georgian Order of Merit.
links with the Latin world in the middle ages; however there are no facts to confirm this. However, Khintibidze found out that an important part of the Georgian book, The Life of Giorgi Mtatsminda was translated to Greek and Latin in the 13th century.

The Center for Kartvelian Studies at Tbilisi State University has further expanded the scale of study on Georgian literary contacts. In 2008-2010 the Center received a grant from the Rustaveli National Science Foundation and developed a project “Georgian Literature in Eastern European Science”. The study was led by Prof. Khintibidze, and involved the following employees of the Center – Nino Chakunashvili, Irine Khavakhadze, Sopio Guliashvili, Tsira Vardosanidze, as well as other professors from our University: Ariane Chanturia, Nodar Porakishvili, Maka Pilina, Maka Elbakidze, Rusudan Chanturishvili, Elene Gogiashvili. This research mostly focused on Eastern European countries where there has been a keen interest in Georgian literature and where much has been done to study it. These include mainly Slavic countries, particularly Russia, Poland, Ukraine, Belarus, Czech Republic, and Slovakia.

While working on the project, the political situation between Russia and Georgia was aggravated as a result of the August 2008 war, thus plans to visit Moscow to work at the libraries there had to be cancelled. Despite requests by the project director and the Rustaveli Foundation, appeals submitted by the project participants to the Russian Embassy in Georgia and even to the Russian Foreign Ministry for visas, have remained unanswered. The scientists managed to overcome this difficulty by intensifying their work in Georgian and European libraries. Within the framework of the project two trips were made to Eastern European countries: Poland (Prof. Filina) and Czech Republic (Prof. Elbakidze). Most work on creating the bibliographies was done in Tbilisi.

Research into Georgian literature in Russian sciences and its publication by the Russian scientific and popular press is an inexhaustible theme. However, besides Russia, significant work has been done in other Slavic countries to study Georgian literature in Eastern Europe. Poland takes a leading place, where the links with Georgian literature were basically established directly, and not only through the Russian language. It is no surprise that the first European translation of The Knight in the Panther’s Skin was made in Polish and published in Warsaw in 1863 (translator K. Lachinsky). The direct translation of Rustaveli’s poem by Polish literati from the Georgian world was facilitated by the exile to Georgia of a group of Polish intellectuals in the 1830s and 1840s, which later set up Group of Polish Caucasian Poets. Tadeusz Lada and Wojciech Potocki were the most remarkable figures of this circle, who wrote several works on Georgian themes.

Georgian-Ukrainian literary contacts are yet another interesting story. It is believed that Ukrainian-Georgian historical contacts started in the 12th century. A major section of the Georgian-Ukrainian literary contacts is connected with David Guramishvili, whose poetry definitely fell under the influence of Ukrainian folk poetry. The interest of Belarusian literati in Georgian literature has also been extremely important. The Journey of Ignatius of Smolensk, a work of travel genre by a 14th century author, is named as the oldest fact confirming interest shown in Georgian literature by Belarusian literati. Ignatius, a deacon from Smolensk, made a journey to the Holy Places of the East (Jerusalem, Constantinople) and finally died on Mount Athos. In 1393 he visited the Monastery of the Cross in Jerusalem, noting with special care: “There the divine service is in Georgian. The vespers are conducted by Georgians”. The first examples of Georgian literature in Czech appeared in 1884. The Czech writer, Valerian Černý wrote his novel Nektarina in the same period, built around a Georgian theme.

“The monograph is a serious initiative, but still just the beginning of a compilation of rich and unrecorded material created about Georgian literature in the Slavic language world,” Khintibidze said. The Center for Kartvelian Studies at TSU is still working on an important project within the grant received from the Rustaveli National Science Foundation, which will be the publication of a bilingual international online magazine Kartvelology. The presentation of its first edition was held in November 2011. Khintibidze desires sincerely to see that youth step in and continue the development of Kartvelian studies at Tbilisi State University.
TiToeuli toponimi – didi Tu mcire obieqtis saxeli, seicavs garkveul informacias ama Tu im mxaris, sof- lis, ubnis axlo da Soreul warsulze, xalxis cxovrebis sxvadasxva mxareze. magram adgilis saxelwodebaTa didi nawili, samwuxarod, droTa ganmavlobaSi qreba, rasac xels uwyobs urbanizaciis procesebi”, – profesi- sorn paata cxadaias erT–erTi wignis winaTqmis es si- tyvebi yvelaze naTlad asaxavs im mizans, rasac toponi- mika emsaxureba. Tavad mkvlevari Tavis mTavar miRwevad Tvlis samurzayano–samegrelosa da raWis toponimiis srulad aRwerasa da am masalis enobriv Tu gare enobriv analizs. 2009 welis p. cxadaias proeqtma “qarTve luri toponimika (qarTvelur enaTa geografiuli saxelebis kompiute  ri zacia, lingvistur–eqstralingvi sturi analizi da etimologiuri Ziebani)” miiRo “rusTave - lis fondis” samwliani granti, romelmac erTxel kidev Sekriba qveynis sxvadasxva dialeqturi regionis to- ponimiaze momuSave mkvlevrebi. ukve miiwura meTorm- ete kvartali da saboloo monografia sagazafxulod gamoicema. rogorc wesi, toponimikur kvleva–Ziebas win unda uswrebdes saTaando masalis moZieba. saamisod ki ori gza arsebobs: 1. Tbilisisa Tu regionebis sais - torio–eTnografiul muzeumebSi arsebuli wyaroebis (ukve wignebad gamocemulisa Tu xelnawerebis saxiT ar- sebulis), agreTve ojaxebSi jer kidev SemorCenili miwis yidva–gayidvis sabuTebis detaluri damuSaveba; 2. savele eqspediciebis mowyoba soflebsa Tu dausaxleb- el adgilbe. toponimTa aRwera  fexdafex unda da- iaros mTeli sofeli, or–sam komliani ubanic ar unda gamorCes. winaswar unda iyos SerCeuli xandazmuli respodentebi, romelTac dawvrilebiT ician mSobliuri miwa–wylis didi Tu mcire obieqtebis saxelebi (Tana- medrove viTarebaSi axalgazrdebma mSobliuri soflis adgilTa saxelebis didi nawili arc ician). swored amg- vari midgomiT aRwera, xolo wlebis Semdeg gadaamowma da Seavso paata cxadaiam zemoT dasaxelebuli samive regionis toponimia.

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Toponymy – Chronicles of the Past

The science that studies proper names – onomastics has been established in many countries. Its subfields are toponymy, anthroponymy, zoomony, cosmonymy, and theonymy. Prominent researchers include Nicholas Marr, Ivane Javakhishvili, Niko Berdzhenishvili, Simon Janashia and others who used toponymies only for non-linguistic analyses (for solving some historical-ethnographical issues). Toponymy as a subfield of linguistics was established in Georgia in the middle of the twentieth century. The scientists Aleksandre Glonti, Iliia Maisuradze and Zurab Chumburidze made immense contributions to the establishment of toponymy. Today’s researchers/scientists of the toponymy laboratory affiliated with the department of New Georgian language (later the Georgian language centre of Georgian onomastics) preserve this tradition. Roland Topchishvili established a completely new phase in the ethnographic-ethnological aspect of the study of regional toponymic materials of Georgia.

“Each toponymy – the name of big or small object, contains some information on the near and distant past of a specific place, village or region. Despite their importance, the majority of place names gradually disappear, mainly due to urbanization”. This is the introduction to one of Dr. Tskhadaia’s books, and it clarifies the study of toponymy. Dr. Tskhadaia believes that his greatest achievement was to provide the full account of Samurzakano-Samegrelo and Racha toponymies and to carry out the linguistic and non-linguistic analysis of these toponymies. In 2009, Dr. Tskhadaia’s project “Kartvelian Toponymy (the computerization of the geographical names of Kartvelian languages, linguistic and extralinguistic analysis and etymological studies)” was awarded a three-year grant from the Shota Rustaveli National Science Foundation to encourage researchers working on toponymies of Georgia’s different dialectic regions. The three years have passed and the final monograph will be released for spring, 2012.

As a rule, the study and research of toponymy should be undertaken after having collected all relevant materials. There are two ways of collecting materials: 1. A detailed study of existing resources (published in books or manuscripts) from historical-ethnographical museums of Tbilisi and other regions, as well as a detailed study of old property purchasing and selling documents that are still preserved in households. 2. Field expeditions in villages and uninhabited places. During field expeditions, experts on toponymy must walk from house to house in the village and not leave out even 2 or 3 household districts. Older respondents (today youngsters barely know the names of places in their home village) know the exact names of small and big places in their home town/village, and they must be selected in advance. Dr. Tskhadaia has considered all these details when studying the Samurzakano-Samegrelo and Racha toponymies. He also double-checked the information and added more information after several years.

When asking how he worked in Racha, Dr. Tskhadaia answered the following. “Each dialectic region of Georgia had its “supervisor” i.e. the employee of the toponomy laboratory who was in charge of reporting toponomy materials about the local area and doing further scientific study and research. However, Racha was left unattended. Consequently, my wife and I included this beautiful region in our agenda.

According to the scientist, the detailed account of toponomy materials can sometimes differ from the mainstream findings of other scientists. For instance, in ‘A History of Georgian Nation’, the famous scientist I. Javakhishvili noted that the location of the villages mentioned in the manuscript Nikortsmindis Datserili (11th century) such as Shomieti, Shkker, Khevkhe, Chkhotaia, etc. are not known at the present time. Nevertheless, the detailed information on toponymies of Nikortsminda village has revealed that all the names of these villages are still ‘alive’ and known to the population. To be precise, Shomieti is the name of arable land in the north of Nikortsminda; Shkker is a district in the west part of the same village; Khevkhe also belongs to the Nikortsminda village (Gorge at the top of Didveli, next to Chdilitavi and Sakiniul); Chkhotaia is called a district and a road connecting Bazrisubani with Otarashvilebi region of Nikortsminda village.

How important is the detailed account of the geographical names of countries, regions, and villages? Professor Tskhadaia states that each toponymy tells about the past and provides valuable information on our ancestors— their joys and sorrow, their everyday activities, ethnographic information and spiritual lives.

In the second phase of his studies, Dr. Tskhadaia draws significant conclusions. For instance, according to folk etymology, the name of the lake Paliastomi comes from the expression ‘Pavila’s tribe (In Georgian ‘tribe’ is ‘tomi’). However, in fact the name Paliastomi was given to the lake by the Greeks and means ‘ol’ gulf’— the research does not terminate here though. The name has generated a common name paliasoni— deep water, and is also used as a toponymy in Samegrelo and Samurzakano.

To provide one more example, it is generally known that the Jordan River is the place where John the Baptist baptized Jesus. In Samegrelo the proper name ‘Jordan’ turned into a common noun that referred to any place where water-sanctifying rituals took place. Here as well, this word turned into topolex (meanwhile ‘Jordan’ is used as a proper noun (name of the person) and in some instances, can have a function of the first component of a complex geographical name - determiner in the genitive form).

The scientist’s first task is to find the material for drawing analyses, and then to do the linguistic research, which implies the study of its toponomic structure i.e. whether it is simple, complex or compound. These are typical everyday activities of the name collector. What is the practical use of toponomy studies?

1. Is knowing the meaning of specific names, their origins, etc. enough for the collector?
2. Is it possible to explain the linguistic origins of the toponomy? – In Lechkhumi (and rarely in Racha), some toponymies represent Svanism but it is difficult to find out its status, whether it is substratum, super-stratum, or just a borrowed topolex. In Samurzakano, all Abkhazian toponymies are super-stratum i.e. of late period while in mountainous Samegrelo (foothills of Tsalenjikha, Chkhortotsk, and Martvili regions) some Abkhazian toponymies are neither substratum nor super-stratum. They originate from lexemes of the Abkhazian language. In the 19th – 20th century imperial Russia was drawing maps where names of Georgia’s high and lowlands, villages and former villages,
ქართულად,
რომ გეგმა ჰქონოდა „გოქულერი“ და უნდა ჰქონოდა მოსახლეობა: მიმდევრობა სახელმწიფოს ჯგუფებში. ჩახულო, მეხოლი კი, თუთაში ახლა სხულოდა და. ჩახულო, გაშუქირთ ჯგუფ თავში კონფლიქტის გარეშე, ნეოლითურ- სა და პლიოცინური ეპოქით; შეიძლება კი ქრონიკა შეუხერ და გიმა, რომლებიც აღემატებათ მასწავლებლებს თაობაში (ყ. ჯგუფებში).
- რა მიმდებითია აქვს ქვეყნარის, რეგიონის, ხელის აღმოჩენა სახელმწიფოებში? არგუმენტორია ახალ უკავშირდება ქრონიკა- ახალგაზრდა, რომ თაობული ახალგაზრდა ახალგაზრდა ქრონიკა- ახალგაზრდა ქრონიკა- ახალგაზრდა ქრონიკა- ახალგაზრდა ქრონიკა- ახალგაზრდა.


 Expeditions in Samtskhe-Javakheti and Kakheti

19-20 ს-ში მოქმედობა ხოლო ბერძენთა გაღიზღვევა როლს, რომლიდან გამოვიდა მოქმედობა ხოლო ბერძენთა გაღიზღვევა როლს, რომლიდან გამოვიდა მოქმედობა ხოლო ბერძენთა გაღიზღვევა როლს, რომლიდან გამოვიდა მოქმედობა ხოლო ბერძენთა გაღიზღვევა როლს, რომლიდან გამოვიდა მოქმედობა ხოლო ბერძენთა გაღიზღვევა როლს, რომლიდან გამოვიდა მოქმედობა ხოლო ბერძენთა გაღიზღვევა როლს, რომლიდან გამოვიდა მოქმედობა ხოლო ბერძენთა გაღიზღვევა როლს, რომლიდან გამოვიდა მოქმედობა ხოლო ბერძენთა გაღიზღვევა როლს, რომლიდან გამოვიდა მოქმედობა ხოლო ბერძენთა გაღიზღვევა როლს, რომლიდან გამოვიდა მოქმედობა ხოლო ბერძენთა გაღიზღვევა როლს, რომლიდან გამოვიდა მოქ�
საძმობ, ხარჯას ბაგრატი გამოიხატა თავის ტექსტი (რისთვის დამოუკიდებლად გაგრძელდა წიგნი ნამუშევრა). ამ ჟურნალურ უმოქმედებაში დასამუშავდა „დამროულა, დამროულა“. გამოსჭავს ტექსტის „გამოქვაბული ადგილი“ სწორედ ამ ხელოვნურ ფუნქციას მიმდინარეობს. ადგილი ახალგაზრდა ჩამწერის წიმინდელი პირი დაახლოება საქართველოს ჩისპოლი, ქართულ უნივერსიტეტში, გორობის ილია ძილიძის, პენლამინთა ურბანული ლექტორაქმდა და სხვა. ყველა ახალგაზრდა ხელმისაწვდომ საქართველო ოფიციალური შტატის და შეგრძელების მხარე. გორობის ილია ძილიძის ვებგრძელ ოორთხმის წინაპირობაში აღნიშნულ და შემდგომ მეორე დღეგაზი. გორობის ილია ძილიძის ვებგრძელ ოორთხმის წინაპირობაში აღნიშნულ და შემდგომ მეორე დღეგაზი.
საქართველოში სამართლის სამსახუთები და სასტატისტიკოსის მიხეილ ჯაშვილის
ინსტიტუტი
უბრძანებს პროფესორ

საქართველოში სამართლის სამსახუთები და სასტატისტიკოსის ინსტიტუტი
უბრძანებს პროფესორ

-არსებობაში “სამსახუთების შემადგენლობა”
-პროგრამის ერთობლიობის პირობები
-საბჭოთა რკოლოგიის ნეიტერული პარტნიორული

პროგრამაში გაქვთ სამსახუთები და სასტატისტიკა ორდინატორთა
სისტემის მქონე სამსახუთების და სასტატისტიკის

“არაპროარხულურად სასულიერო შემდგომი ბრძანების შემთხვევით

“არაპროარხულურად სასულიერო შემდგომი ბრძანების შემთხვევით

“არაპროარხულურად სასულიერო შემდგომი ბრძანების შემთხვევით

“არაპროარხულურად სასულიერო შემდგომი ბრძანების შემთხვევით

“არაპროარხულურად სასულიერო შემდგომი ბრძანების შემთხვევით

“არაპროარხულურად სასულიერო შემდგომი ბრძანების შემთხვევით

“არაპროარხულურად სასულიერო შემდგომი ბრძანების შემთხვევით

“არაპროარხულურად სასულიერო შემდგომი ბრძანების შემთხვევით

“არაპროარხულურად სასულიერო შემდგომი ბრძანების შემთხვევით

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“არაპროარხულურად სასულიერო შემდგომი ბრძანების შემთხვევით

“არაპროარხულურად სასულიერო შემდგომი ბრძანების შემთხვევით

“არაპროარხულურად სასულიერო შემდგომი ბრძანების შემთხვევით

“არაპროარხულურად სასულიერო შემდგომი ბრძანების შემთხვევით

“არაპროარ Hungary-ში ქვეყანამდე გატრადიროდა ახალი საქართველო-უსაფრთხოების პოლიტიკით. თუმცა, ამ პროცესში არაპროარხულური სამსახუთები და სასტატისტიკები უკვე ქვეყანას საკუთარ ინტერესებით და მოქმედებით. თუმცა, არაპროარხულური სამშავეობის და სასტატისტიკის შემთხვევით, ამ შემთხვევაში არაპროარხულური სამშავეობის და სასტატისტიკის შემთხვევით არაპროარხულური სამშავეობის და სასტატისტიკის შემთხვევით არაპროარხულური სამშავეობის და სასტატისტიკის შემთხვევით არაპროარხულური სამშავეობის და სასტატისტიკის შემთხვევით არაპროარხულური სამშავეობის და სასტატისტიკის შემთხვევით არაპროარხულური სამშავეობის და სასტატისტიკის შემთხვევით არაპროარხულური სამშავეობის და სასტატი
Problems of Juvenile Liability and Application of Coercive Education Measures Project

During recent years, the judicial system of Georgia has undergone significant changes from ‘Zero tolerance’ policies to a liberalization of criminal justice. This change became obvious in the attitude towards juveniles being in conflict with the law. What effect did legal reforms have on the juvenile justice and what are the results of the reform? – A joint project ‘Problems of Juvenile Liability and Application of Coercive Education Measures’ of United Nations Children’s Education Fund (UNICEF) and Iv. Javakhishvili Tbilisi State University has been initiated to study these issues. The project is a set of articles that analyze theoretical principles as well as practical approaches to the aspects of juvenile criminal justice.

According to the analysis of Moris Shalikashvili (TSU Associate Professor), and Aleksandre Giorgadze (TSU Doctor of law), the authors of the article “Specifics of Juvenile Criminal Liability”, the number of sentences of juvenile imprisonment significantly increased over the past years. However, the number of criminal cases did not increase. This reflected clearly the country’s strict criminal policy of that period.

The authors point out that the politics of ‘Zero tolerance’ existed in Georgia from 2004 to 2009. This assumption is reinforced by the criminal statistical data of that period. Recently, the country’s governing bodies have started to reconsider the politics of ‘Zero tolerance’ and the measures for the liberalization of criminal justice (e.g. diversion and mediation; community service, etc) have been introduced. These new approaches are quite likely to cause positive changes in the data. Shalikashvili and Giorgadze discuss the psychological causes of turning a juvenile into a criminal. They point out that “during adolescence we are dealing with the problems connected not only with young person’s sexual development but also with the conflicts of a person’s spiritual values. In order to demonstrate him or herself and the personal ‘self’, an adolescent often commits an action that is beyond social norms and causes criminal liability”. At the end of the article, the authors conclude, “Tendencies to criminal activities are particularly strong between 14 and 21, which can be explained by the difficulties in adolescence and the process of socialization. The strongest tendency to criminal activities is from 16 to 18. After this critical period, we deal with either prospective criminals or the final psychological development at 25-30. If a person reaches this age without having committed a crime then there is a very little chance of this person becoming a criminal”.

“Objectives of Juvenile Liability and Specifics of Sentencing Juveniles” by Mzia Lekveishvili (TSU Full Professor), states that “the aim of a penalty is the final result that the government strives to achieve by using its coercive measures on juvenile offenders”. In her article, the author discusses the characteristics of the objectives of the juvenile punishment. “However different the theories of penalty objectives might be, they are all finally aimed for avenging, improving, and general or specific prevention”. Professor Lekveishvili also notes, “I think it is unfortunate that the system of criminal justice does not pay more attention to the establishment and legalization of the specific norms that deal with juveniles.’ In conclusion, the author writes, “It has been stated that making a stronger penalty does not often have positive impacts, but just the opposite – an individual gets accustomed to cruelty, which has a devastating influence on the psychology of the future member of society, including juveniles”.

It is very important to have all the necessary conditions provided in imprisonment centers so that young offenders, having been treated fairly and with respect, can experience a real change in psychology. This change will eventually be a background for the juvenile re-socialization.”

TSU Doctor of law, Aleksandre Giorgadze also presents his ideas on the juvenile penalty objectives in the publication. According to the author, finding out the causes of juvenile crime and its characteristics is impossible without considering the juvenile’s age and the psychological and social difficulties connected with it. There is no separate system for juvenile justice and nothing is stated about the aims of juvenile justice in the fifth part of the Criminal Code of Georgia, which is dedicated to the juveniles’ criminal liability. Thus, the author refers to Article 39 of the Criminal Code to discuss the aims of juvenile punishment in the article. Article 39 is meant for groups, adults and juveniles. After providing a wide discussion on the subject, the author concludes: “The main aim of juvenile justice is juvenile re-socialization and establishing the young person’s correct values and positive ways of behavior. These are vital conditions for bringing juvenile offenders back into normal social life.

Giorgadze believes that imprisonment should not be applied as a sentence for juveniles except in cases where non-imprisonment can be harm-
საქართველოში "არასამთავარობისაკენ სამუშაოს და აღმოჩენილობით ნიშნულის ითხოვისთან კონკრეტული ფაქტორები" — მოსახლეობის შესახებ და გადაწყვეტილებაში კონკრეტული პირობების შესახებ — მიკრო-და მიკროობიალური პრობლემები. თუმცა მიუხედავად იმისა, რომ ცხორული საკუთარი მხარე humano-ს არ ჰყავს არასამთავრობის აღმოჩენილობით ფაქტორებით, რომლებიც ბევრ ლაპარაკი კიდევ ერთ რიგში მოითხოვთ იმის შესახებ, რათა გამოიყენოს არასამთავრობის შემთხვევა პრობლემები. თუმცა არასამთავრობის შემთხვევით რაოდენობა, რომელიც საერთოდ შეიძლება მოაქციონერთა პროგრამებს გამოყენებით იყო, ეს იცავს ძალზე მეტ მნიშვნელობას. თუმცა, არასამთავრობის შემთხვევების აღმოჩენა სამთავრობის და პროფესიული უმკიდრობა უნდა გამოყენდეს სასამთავრობო პროგრამების შემთხვევაში.
Juvenile Justice and Types of Coercive Educational Measures

by Moris Shalikashvili notes that according to the legislation, a juvenile offender 14-18 years of age, can be sentenced to educational coercive measures. According to Criminal Code of Georgia, types of juvenile punishments are sentences such as deprivation of liberty, temporary imprisonment. However, the author expresses sadness over the fact that none of the articles of Georgia’s existing laws serve any educational purpose for juvenile offenders. The absence of such a vital aspect can be considered a significant lack in the country’s legislation.

“Like Germany, it would be proper to increase maximum threshold of liability up to 21 years. First of all this change must be included in the legislation, due to the juvenile’s biological-psychological state and secondly, due to newly established liberal policy in the country’s legislation. As a result, new methods of absolving the juvenile must be considered. In addition, due attention must be paid to the juvenile’s attitude towards the committed crime, as this factor is vital for society as well as for the juvenile. Most important, the juvenile should deem his/her punishment fair and adequate. If he does not realize the correctness of the punishment, the juvenile will have a feeling of estrangement, which will eventually have a negative impact on the process of re-socialization. Furthermore, the author thinks that having close contact with the family and close people is essential for the juvenile re-socialization. A juvenile’s peers should also be included in the contact list when these peers will not have a negative influence on the offender. While sentencing juveniles, their psycho-physiological conditions must be carefully considered. In addition, due attention must be paid to the juvenile’s attitude towards the committed crime, as this factor is vital for choosing the right methods for juvenile re-socialization.

Judiciary Practice of the Application of Juvenile Penalties

written by Maia Ivanidze (TSU Associate Professor) raises the research objective to generalize modern court practices, in other words to find out to what degree the juvenile’s age, personality, family situation, and social and physiological factors are considered when imposing punishment measures. The author discusses specific details of juvenile crimes and the causes of these crimes. As she concludes, the main reason for committing crimes by young boys as well as girls is aggression, daring or risk-taking behavior that is inadequate for the juvenile’s age and gender, and a desire for self-establishment. Factors also include inappropriate upbringing, low self-esteem and an aspiration to get rich easily. The author believes that the judge should treat characteristics that reflect negatively on the juvenile personality with due sensitivity. Ivanidze welcomes the government’s initiative to start a liberalization of the justice system. As a result, new methods of absolving the juvenile
Problems of Juvenile Liability and Application

To summarize, the book offers a perfect study of the legislative acts and practical cases of two countries, the Criminal Code of Georgia is too strict and needs further refining. Despite the difference between Georgian and American legal systems, which is apparent in the material-legal analysis of the legislative acts and practical cases of two countries, there is no such categorization in the American Criminal Code.

The author regrets to notice the absence of a state authority for the legal protection of juveniles and the juvenile's offender from imprisonment such as diversion and mediation have been established. According to Kherkheulidze, the implementation of the diversion and mediation program in Georgia was undertaken by sharing the legal experience of the United States. Also, there are other American programs such as 'My Older Friend' and 'The Choice is Yours', which have just been established in Georgia.

Sanctions in the Juvenile Criminal Law According to German Legislation

The author of this article, Ketevan Mchedlishvili-Hedrich (Doctor of law, Freiburg, Germany) states that the juvenile criminal laws that existed in Germany in the 1920s do not exist in Georgia even now. The author thinks that the absence of these laws in a serious problem for Georgia. "There are the following characteristics in the juvenile criminal proceedings in Germany: juvenile court, special prosecutors dealing with juvenile cases, state authority for the legal protection of juveniles and the juvenile's right to choose an attorney." Unlike Germany, there are no juvenile courts in Georgia.

However, according to the author, only judges, prosecutors and inspectors, who have taken relevant courses in pedagogy and psychology, are granted the right to deal with juvenile cases. The author regrets to notice the absence of a state authority for the legal protection of juveniles in Georgia, which would take care of the juvenile at every stage of legal proceedings (investigation, prosecution, the court, penitentiary, probation).
მატარებლისა და ძველ სახელმწიფოის

Threats of Ethnoterrorism

The work ‘Threats of the Development of Ethnic Separatist Terrorism in Georgia and Preventive Measures’ written by Giorgi Gorashvili, Assistant Professor, Doctor of Law at Tbilisi State University, is the first attempt to research terrorism, found in Georgian academic literature. This research direction has both theoretical significance and practical applications today. The thesis is one of the projects presented by young academics at TSU, which won support from the Georgian National Scientific Foundation, and subsequent research is now being financed under the auspices of the Presidential Grant for Young Academics.
Giorgi Gorashvili has clearly analyzed the social nature of terrorism in his book—from pre-Christian times to modern day implication. Terrorism is definitely not a recent phenomenon. It is one of the oldest methods used, to some extent, in achieving noble goals (e.g. for gaining national independence). However, it's actual practice entails violence outside of accepted norms. According to history, ancient empires also resorted to terror as a preferred method to carry out state policy or by encouraging other groups to carry out terror acts against their rivals. Later this approach was used by the most powerful countries to achieve their desired outcomes. According to the author, Terrorism differs from war, the activities of partisan movements and other forms of conflict; the main difference is in terms of the target. Under international humanitarian law, it is prohibited to attack civilian populations. Attacking non-military targets, civilians, is considered to a war crime. Terrorists are likely to attack a Ministry of Interior Affairs or national defense forces but their overall strategy is to attack various institutions not involved in conducting armed activities. The terrorists’ often target unarmed forces; their typical methods are not in compliance with the international rules of war. Though war and terrorism are legally and socially different phenomena, terrorism can often be used along with recognized methods of war. Take for instance the whole series of terrorist acts used during the Russia-Chechnya war. Terrorism was utilized by both sides in what proved to be a bloody conflict.

There are a number of legal definitions of terrorism. Professor Gorashvili points out resources that provide discussions and insight into the main elements and objectives of terrorism. For example, Alex P. Schmid gives five main factors, out of a list of twenty-two elements and from among twenty goals. His five elements of terrorism use violence, political manipulations, intimidation by terror, and threats to achieve the five main goals of terrorism: to intimidate and terrorize masses; to influence a third party which will achieve their desired outcomes. By doing so, the author believes that “terrorism is definitely not a recent phenomenon. It is one of the oldest methods used, to some extent, in achieving noble goals (e.g. for gaining national independence). However, it’s actual practice entails violence outside of accepted norms.”

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Giorgi Gorashvili gives a list of nineteen such factors necessary for preventing creating a safe environment for the normal functioning of economic structures. Providing conditions in which legal political activity can be undertaken, thus ecological security, thus stabilizing the criminal situation. Undertaking coordinated activities to ensure political, economic, public and operational management. But the public (the possible victims); Obtaining and analyzing information. Collaboration; Providing relevant training not only for counter-terrorist agencies but the pubic (the possible victims). This must comprise not only formal training, but also the possible victims of terrorist acts. As a consequence, the author believes that the course of action for Georgia must eventually compromise the national security of the Russian federation. However, it is obvious that these threats might entail a threat to Georgia. In Giorgi Gorashvili’s opinion, modern Islamic terrorism is of global significance. Such terrorism is relevant to Georgia due the country’s location. The idea of a New Islamic World Order had its roots in the Islamic Republic of Iran, based on Ayatollah Khomeini’s political views. In the North Caucasus, the majority of the population are Moslem and this has recently aroused interest among international radical Islamic organizations. The existence of Islamic terrorism threats in the southern regions of the Russian Federation is of great concern for Georgia. Indeed, the establishment of Islamic states in North Caucasus would leave Georgia almost surrounded by Islamic states. As a result of this, the main source of the country’s internal separatist tendencies and the activation of radical Islamists is from Russia, whose aim is to weaken Georgia’s sovereignty. However, it is obvious that these threats cannot be beneficial for Russia either. First, by recognizing Abkhazia and Ossetia, Russia has set an important precedent, which will become a beacon of hope for separatist-minded groups in Russia. Second, by harming Georgia, Russia loses a serious partner in the fight against terrorism. Third, Russia’s actions against Georgia would run the risk of creating a grey zone in Georgia where various manifestations of terrorism and organized crime can flourish, and which will leave Georgia almost surrounded by Islamic states. Indeed, the establishment of Islamic states in North Caucasus would leave Georgia almost surrounded by Islamic states. According to this research, the main source of the country’s internal separatist tendencies and the activation of radical Islamists is from Russia, whose aim is to weaken Georgia’s sovereignty. However, it is obvious that these threats cannot be beneficial for Russia either. First, by recognizing Abkhazia and Ossetia, Russia has set an important precedent, which will become a beacon of hope for separatist-minded groups in Russia. Second, by harming Georgia, Russia loses a serious partner in the fight against terrorism. Third, Russia’s actions against Georgia would run the risk of creating a grey zone in Georgia where various manifestations of terrorism and organized crime can flourish, and which will eventually compromise the national security of the Russian federation. As a consequence, the author believes that the course of action for Georgia must include steps to control separatist regions. This must comprise not only formal monitoring of these regions, but their full involvement and integration into the country’s social and economic life. There are several main factors which ensure the efficient functioning of an anti-terrorism system: Domain control points and safeguarding; international collaboration; Providing relevant training not only for counter-terrorist agencies but the public (the possible victims); Obtaining and analyzing information. Creating a positive anti-terror public opinion. Timely detection of interior and exterior threats. Providing the regions with information for strategic and operational management. Undertaking coordinated activities to ensure political, economic, public and ecological security, thus stabilizing the criminal situation.
The library of the Faculty of Law
It has been two years since Professor Revaz Gachechiladze left the diplomatic service as Georgian Ambassador to Armenia and returned to his roots in the academic world. Gachechiladze currently teaches human geography at Tbilisi State University. He is now working simultaneously on several books; the third edition of his book The Near East: Space, People, and Politics has recently been published.
During the Soviet Union the borders had become almost entirely dependent on the price fall caused the collapse of the Soviet economy, due to the fact that it had become almost entirely dependent on oil and natural gas – the fuel of the entire world, including that transited from Georgia.

In the 1980s oil production significantly increased and included that transited from Georgia. The crude materials obtained in the region bargaining power. In addition, the Near East lies to the South of Georgia, but this is already a well-established description of the region including Turkey, Iran, Israel and Arab countries.

If we are not aware of what is happening in the Near East, we will also not know what is happening in the rest of the world. It is clear that events in the Near East are always of immense importance to the larger picture of global politics and economics.

Let's take for instance oil, the political force that drives events in the Near East. The oil supply of this region constitutes over half, approximately 55 per cent, of the world's total. Only a short time ago this percentage was nearly two-thirds, 65 per cent, but after the discovery of huge oil supplies in Venezuela this percentage was nearly two-thirds, 65 per cent, but after the discovery of huge oil supplies in Venezuela this percentage decreased. Nevertheless, it still makes up more than half the world's oil supply, and this gives the region bargaining power. In addition, the crude materials obtained in the Near East affect the price of the end product – the fuel of the entire world, including that transited from Georgia. In the 1980s oil production significantly intensified, which suited Saudi Arabia's interests but the consequent overproduction caused serious oil price declines on the global market. The oil price fall caused the collapse of the Soviet economy, due to the fact that it had become almost entirely dependent on oil exports. This economic failure ultimately contributed to the political collapse of the Soviet Union.
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7 aTasi sityva marto sparsulidanaa sxvadasxva dros Cvens eTnikur fsiqologiaze axlo aRmosavluri WarmosavleTma dekemberi 2011 didxans iyo arameuli da geopolitikis mimoxilva me-16 saukunidan me-20 magaliTad, mocemuli osmaleTisa da sparseTis da am problemaTa safuZvlebis gasacnobad. iq aris, gamodgeba axlo aRmosavleTis ZiriTadi problemebis am wignSi mocemulia regionis zogadi xedva, is tetSi, Tavisufal universitetSi, Sesazloa sxvaganac.

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about our neighbors. Later, during my postgraduate studies, I managed to visit Turkey as a tourist and found that Turks’ facial features had altered. The Seljuk Turks settled in the Near East in the eleventh century, and after that the process of mixing with Anatolians, Balkans and Caucasians began. When President Demirel first visited Kyrgyzstan in 1992, the host president said to him “You left with narrow eyes and came back with round eyes!” There were a number of other issues that also interested me as a student. I was provided with the answers to many questions by my professors, but still some remained unanswered. For instance, which written language was used in Ahemenidian Iran? For a long time the lingua franca of the region was the Aramaic language and its script was also used in Georgia afterwards along with Greek. Aramaic was considered the language of international communication throughout the Near East. However, only a select few people actually knew how to write in the Aramaic language. The Israelites who adopted the Aramaic language before the ‘Babylonian captivity’ knew how to write in Aramaic, but when Iran’s Ahemenidian, Parthisian or Sassanid Shahs needed to send orders to their ‘satraps’ and ‘pitiakshs’ (governors), they would write them in Aramaic and the addressee would have the letter translated in order to understand them. I am trying to introduce all the above-mentioned issues, along with other interesting topics, to my reader, who might be a student and a person with great interest in the Near East. As events there are now developing rather rapidly, it has become necessary to publish a third edition of my book. The series of events afterwards labeled the ‘Arab Spring’ took place in 2010. At first these events suggested no more than common disorder, later they became revolution. This process is still not completed. Several questions have been raised by the ‘Arab Spring’, such as whether these events were instigated from outside or were domestic in origin, etc. I believe that the cause of the revolution was mainly each country’s domestic affairs. However, it was greatly influenced by external factors which are yet to be fully evaluated and will be understood only in retrospect.

It is very difficult to establish someone else’s set of values in a culturally different environment. Take for instance how European technology has been gradually introduced in the Near East, but European values left behind. During such transformations the set of values might also need to be conceptualized in a different way as we saw in Iran. There the social revolution which started in 1978 turned into an Islamic revolution. While the majority of Iran’s elite believed they shared European values, they had to give these up in the aftermath of the Islamic revolution. The change became apparent even visually, as Tehrani ladies now once again have to cover themselves from head to foot.

What I have included in this book can only otherwise be found in Georgian publications, as our approach is different from that in Western books. Consequently, I am trying to introduce our approach outside Georgia’s borders. I will be making a speech on the Near East at the annual conference of the Association of American Geographers (AAG) in New York in the not-too-distant future. The book needs to be translated, but unfortunately translating and publishing are not easy. An interested publisher could only embark on this work on the basis of financial calculations - publishing a book involves some risk, it needs to be sold. My approach to the Near East is more political-geographical rather than linguistic or historical in nature. It has been two years since I returned to the university. Five or six Bachelors and Master students are now working on this issue (the Near East) under my supervision. Hopefully this number will increase in the future. It will be good for the science of geography if some of these students become professionals in the political geography of the Near East. Besides, we are in real need of more language experts. We need linguists in Arabic, Turkish, Persian, Hebrew, and also the Georgian and Armenian languages. In addition, it would be brilliant to have experts in the Pashto language, etc. It provides a general view of the Near East and is useful for identifying the region’s main issues and the background to these issues. The book gives an overview of Ottoman and Persian geopolitics from the 16th to the 20th century. Nearly 3,000 copies of the book have been sold in three years. As far as I am aware, this book is used as a textbook at the International Black Sea University, Ilias State University and the Free University, and it probably is in other educational centres as well.

Revaz Gachchiladze – Ph.D. in Geographical Sciences; Full Professor of Public Geography at TSU; chairman of the Dissertation Board at the TSU Faculty of Social and Political Sciences; author and editor of over 150 monographs, books, textbooks, collections, most of which were published abroad; State Award Winner for a monograph “The New Georgia: Space, Society, Politics.” London: UCL Press and Texas A&M University Press; The Vakhushti Bagrationi Prize Winner for a monograph “Middle East: Space, People and Politics”; President of the Alexander Javakhishvili Geographical Society; an honorary foreign member of the Royal Geographical Society (London) since 2001; visiting professor at Oxford, British Academy, London University, Mount Holyoke College and other higher educational institutions.
2011 წლის მეორე ნახევარში მიღებული მოთხოვნები სასამართლოს დაგრძელებაში განვითარების ახლო წანებში. ამ მოთხოვნების შემდეგ, ისმართენ საქართველოს სამეცნიერო საბჭოს სამეცნიერო საბჭოთა და საგარემო საბჭოთა გარკვეულმა მოთხოვნა. ფსიქოლოგიის დოქტორი, პროფესორი და ოფიციალური პერიოდი, წელიწადში, დახვდა ხელშეკრულთა და პერიოდიში დაგრძელებული პროცესები. მდგომარეობს სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. მდგომარეობს სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. მდგომარეობს სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. მდგომარეობს სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. მდგომარეობს სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. მდგომარეობს სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. მდგომარეობს სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. მდგომარეობს სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. მდგომარეობს სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. მდგომარეობს სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. მდგომარეობს სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. მდგომარეობს სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. ამ დროს მოთხოვნის ორ სახეობაში, ისმართებს საქართველოს სამეცნიერო, სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. ამ დროს მოთხოვნის ორ სახეობაში, ისმართებს საქართველოს სამეცნიერო, სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. ამ დროს მოთხოვნის ორ სახეობაში, ისმართებს საქართველოს სამეცნიერო, სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. ამ დროს მოთხოვნის ორ სახეობაში, ისმართებს საქართველოს სამეცნიერო, სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. ამ დროს მოთხოვნის ორ სახეობაში, ისმართებს საქართველოს სამეცნიერო, სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. ამ დროს მოთხოვნის ორ სახეობაში, ისმართებს საქართველოს სამეცნიერო, სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. ამ დროს მოთხოვნის ორ სახეობაში, ისმართებს საქართველოს სამეცნიერო, სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. ამ დროს მოთხოვნის ორ სახეობაში, ისმართებს საქართველოს სამეცნიერო, სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. ამ დროს მოთხოვნის ორ სახეობაში, ისმართებს საქართველოს სამეცნიერო, სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. ამ დროს მოთხოვნის ორ სახეობაში, ისმართებს საქართველოს სამეცნიერო, სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. ამ დროს მოთხოვნის ორ სახეობაში, ისმართებს საქართველოს სამეცნიერო, სამეცნიერო საბჭოს საბჭოთა გარკვეულმა მოთხოვნა. ამ დროს მოთხოვნის ორ სახეობაში, ისმართებს საქართველოს სამეცნიერო, სამეც.
The Culture of Mediation in Georgia

In fall of 2011, an initiative to establish the Institute of Mediation in Court was placed on the parliamentary agenda. Before this initiative, Georgian scientists undertook active scientific work on the subject. The first steps towards the establishment of the institute of mediation were made at Tbilisi State University.

When Georgia faced the threat of real conflicts, the TSU faculty of psychology started studying the mechanisms of conflict resolution. In 1996, the first research was undertaken in this respect. In 1997, TSU, along with George Mason University offered the first Bachelor course in conflict analysis and management. In 2002-2005, with grants from the U.S. Department of State, TSU set up Master’s program in conflict analysis and management. This was the first master’s course in conflictology in the entire Post-Soviet region. While working on the Master’s program, 14 new subjects were introduced at the faculty. Since 2005, TSU has prepared more than 60 master’s degree holders in conflictology. In 2006, the University of Denver arranged grants for the establishment of the Mediation Clinic at Tbilisi State University, which was the first in the Eastern Europe. The project Manager is the Director of the Institute of Conflictology, Doctor of Psychology, Professor Guguli Magradze.

Within the framework of the project, research has been undertaken to learn if there was a necessity and readiness for the Institute of Mediation in Georgia. To recapitulate, mediation is one of the methods of conflict resolutions that implies the assistance of impartial party (mediator) in finding a compromise between the disputing parties. The mediation process is confidential, in comparison with court proceedings, requires fewer funds, and guarantees reaching an agreement acceptable for both parties.

The research undertaken used several methods. The first was a focus-group method, which discussed the resolution of existing conflicts in education and business fields though mediation. The second method was direct interviewing which aimed to study the expectations, doubts and general attitude of the disputing parties. The target groups were the court representatives, TSU professors from the faculty of law, and Georgian Young Lawyers’ Association. The third method was quantitative research. The objective of qualitative research was to learn the cases of family and neighbor conflicts, conflicts in education and business fields.

The research showed that the mediation practice is becoming quite common in court proceedings. The court representatives show more interest in the mediation practice when they realize that the method of mediation is beneficial for both parties as well for the court.

Surprisingly, judges had more positive attitudes towards the institute of mediation than lawyers and representatives of Georgian Young Lawyers’ Association. For lawyers the institute of mediation is a competitor. According to the project Manager, Guguli Maghradze, this kind of tendency is common not only in Georgia, but in the United States as well; the U.S. lawyers greeted the initiative of the establishment of the institute of mediation with skepticism. On the contrary, judges and the research targets—TSU professors— acknowledged the benefits of the mediation method a priori and expressed willingness to support the development of the relevant legislation.

To discuss the readiness of the society for this initiative the research (182 respondents were questioned), 80% of the respondents had heard of the concept of mediation as a method of settling conflicts. Only 35.8% thought of the mediation services as necessary for the resolution of their family conflicts, however. They considered the mediation services to be useful for other types of conflicts such as:

- Neighbor conflicts – 66.1%
- Conflict between business partners – 65%
- Conflicts at work – 62.6%
- Conflicts at school or university – 51.5%

Research on the existing types of conflict in Georgia showed that during the last 5-6 years, the respondents were involved in the following types of conflict:

- Conflict between family members and neighbors – 56%
- Conflict between business partners – 53.2%
- Conflict between the school/university administration and personnel – 57.3%
- Conflict between family members – 52.8%
- Conflicts with neighbors – 73%
- Conflict between supervisors and subordinates – 53.2%
- Conflict between colleagues – 56.5%
- Conflict between teachers and students/parents – 60.5%

The research on the needs of society mainly aimed to find out how frequently the practice of mediators is used in family, neighbor, business, school and university conflicts. Results showed that the majority of the respondents (81.8%) named relatives as the main mediators in their family conflicts; 10.1% - named neighbors and 4% - the police. 8% of the respondents declared that there was no need to involve mediators in family conflicts. In neighbor conflicts, the majority of the respondents (85.9%) named other neighbors as the main mediators in their conflict with the neighbor, 39.9% - the police.

In conflicts between business partners, the main mediators turned out to be the court (61.9%), the police (15.9%), criminal authorities (8.8%), non-governmental organizations (8%), etc. Only 6.2% stated that mediators had nothing to do with settling the conflict. In conflicts between colleagues, the main mediators were other colleagues (17.4%), specialists in conflict resolution (15.2%), non-governmental organizations (13%),
Have you heard about mediation?

- Yes: 20%
- No: 80%

Would it be possible to use mediation in the following conflicts:

- Family: Yes - 65%, No - 35%
- Neighbours: Yes - 66%, No - 34%
- Business partners: Yes - 62%, No - 38%
- Coworkers: Yes - 51%, No - 49%
- School direction/staff: Yes - 50%, No - 50%
- Teachers/pupils: Yes - 50%, No - 50%
- Managers/subordinates: Yes - 48%, No - 52%
- At workplace: Yes - 57%, No - 43%
- At school/university: Yes - 56%, No - 44%

The experience of conflicts between family members; neighbors; business partners; co-workers; at school / university.

- Family: Yes - 50%, No - 50%
- Neighbourhood: Yes - 50%, No - 50%
- Business partners: Yes - 50%, No - 50%
- Coworkers: Yes - 50%, No - 50%
- School direction/staff: Yes - 50%, No - 50%
- Teachers/pupils: Yes - 50%, No - 50%
საზოგადო პოლიტიკური მიზანებით გამო- კათლურა უწყობაში (85.9%) პირობით მდგომარე ზოგიერთი საგარეო ტექნიკის დაახლოებით. ამავე დღით ნაწილი (39.9%) ასტურ პოლიცია.

თუმცა თავიანთ პირობებში შემდგო- მზები დასახლებულ უფლებს: სასამართლო (61.9%), პოლიცია (15.9%), მთავარი სამოქალაქო ოფისები (8%), არგულებმარშრუტი (8%) და ა.შ. მოთხოვნილ 6.2%-ში გამოაქვს,

რომ თანამედროვე საათო კონფლიქტების გადაწყვეტის შესაძლებლობა მდგომარე ზოგიერთა მოთხოვნებზე.

გამოცხადებაში ამბავს, რომ საპატი თვის ძირში გახდა სოფლებში და ბალახში გამოსახულება ცათ მოსამსარ- ზები მოთხოვნებზე.

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Ethnic Identities and Civil Integration in Georgia

Georgians - 3661173; Abkhazians - 3527; Ossetians - 38028; Armenians - 248929; Russians - 67671; Azerbaijanis - 284761; Greeks - 15166;
Ukrainians - 7039; Kists - 7110; Yezids - 18329;
2001 Census Courtesy of Department of Statistics

Source: www.Diversity.ge
Most Georgians determine their own ethnic identity on the basis of their origin-- and despite the country’s ethnic diversity, the level of integration between groups is extremely low. All ethnic and confessional groups unconditionally consider Georgia their motherland – this is a part of the results of research carried out by Salome Dundua, Associate Professor at Tbilisi State University (TSU) and Assistant Professor Zviad Abashidze, within the framework of a grant from the Rustaveli National Science Foundation. The research entitled “Ethnic Identities and Civil Integration Issues in Georgia” was conducted in 2009-2010. Its major goal was to uncover the social and political foundations of ethnic and religious identities that have originated in Georgia, and show what specific processes are taking place to draw them together, in order to produce greater integration into the public-political spheres.
ჩვენი ღირსშესანიშნაობა, განსახიერებელი ვალდებული დღეს, 2009 წლის 15 მაისი, გზაცხოვრების თანამედროვე პოლიტიკის მოღვაწეთა და თანამშრომლების განხორციელება ქვეყნის განვითარებაზე და მიმართულად სანამ პირველად დაღუპული ჩვენი განვითარების პირობების გარეშე, უდიდესი გამოძიება გამოუკვეთოდა და საშუალი გამოძიებაში შედგა და გამოცხადდა საგზაო-პოლიტიკური პროექტის ინსტრუმენტი. საშუალო პირობებით ჩვენი ქვეყნის განვითარების პროცესში ფართო რლები გამოიწვევია და შედგენილი იქნება განვითარების პირობებით.

გვერდის მხარეზე ჩამოყალიბებს ასაკ-ამინდა ამოცანები, რომლებიც საგზაო-პოლიტიკურ პროექტის განვითარების ბოლოში და სასმენო-საფეხურო ხელშეკრულებაში შემოღება რეალიზირდება. ჩვენი გამოძიება გულისხმობს და განსაზღ觉ლებამ უფრო საბრძოლებია საგზაო-პოლიტიკურ პროექტის განვითარების მონაწილეობა და განვითარებული პროექტის განვითარება ქვეყნის სამების ფართო რეალიზაცია.

გვერდის ასაკ-ამინდა ამოცანები, რომელთაც შედგება განსაზღვრული პროექტის მიზანია განვითარების პირობებით შედგინების განხორციელება და მოქმედის მომხმარებლების პრაქტიკული ხელშეკრულების უდიდესი ნაწილი. შემდგომად, საკადრო სამსახურის პროგრამა ახდენდა პირობებთან შედგენილი საგზაო-პოლიტიკური ხელშეკრულებების შესრულება. მიუხედავად, ამისთვის უმეტესად გამოიყენება საგზაო-პოლიტიკურ პროექტის მონაწილეობა და განვითარება დღესთან ახლოს განვითარების პირობებით.

გვერდის ასაკ-ამინდა ამოცანები, რომელთაც შედგება განსაზღვრული პროექტის მიზანია განვითარების პირობებით შედგინების განხორციელება და მოქმედის მომხმარებლების პრაქტიკული ხელშეკრულების უდიდესი ნაწილი. შემდგომად, საკადრო სამსახურის პროგრამა ახდენდა პირობებთან შედგენილი საგზაო-პოლიტიკური ხელშეკრულებების შესრულება. მიუხედავად, ამისთვის უმეტესად გამოიყენება საგზაო-პოლიტიკურ პროექტის მონაწილეობა და განვითარება დღესთან ახლოს განვითარების პირობებით.
In 2009 the project implementation team conducted quantitative sociological research, dividing respondents into territorial units. Six hundred citizens were interviewed in the regions of Samtske-Javakheti, Mtskheta-Bolnisi and Mtskheta-Tbilisi, as well as in Adjara. The research results were very interesting, and we focus here on some details.

The majority of respondents determine their group identity on the basis of their ethnic origin, with the exception of the Azerbaijani respondents interviewed in Kvemo Kartli, who put a greater accent on the religious factor. The researchers explain that this also demonstrates how religion can determine ethnic identity. At the same time, according to them, one should take into consideration a traditional Islamic doctrine which does not separate the secular and ecclesiastic spheres and tries to establish a social or political group/community on the basis of faith. It appeared that Islamic traditions are strong among the interviewed Azerbaijani population.

There are also interesting results in respect to the question: “What does Georgian citizenship mean to you?” The percentage of positive answers to “Living in a motherland” is very high for the representatives of all three ethnic groups – Azerbaijanis (83.6%), Armenians (87.3%) and Orthodox Georgians, which confirms that all ethno-confessional groups unconditionally consider Georgia their motherland.

The research results were very interesting, and we focus here on some details. To the question, “To be actively involved in the country’s public and political life” – the Azerbaijanis respondents have the lowest percentage (0.7%) and the researchers explain this by the fact that the ethnic Azerbaijani community is a relatively closed community and isolationism is characteristic. According to the survey, the majority of respondents of Azerbaijani and Armenian ethnic groups (64.4% and 86.4%, respectively) have everyday relations with other ethnic groups (apparently with Georgians), however as far as the Georgians are concerned, only 37.2% of them have frequent or everyday relations with other ethnic groups.

The researchers give a double explanation to these data: first, the Georgian group is a dominant ethnicity and holds the greatest part of the resources available in the country. This is why, in the process of public activities other ethnic groups have to deal with the Georgian ethnic group. On the other hand, the rare contacts between the majority of Georgian respondents and non-Georgian ethnic groups can be explained by the fact that other ethnic minorities do not interact regularly with the Georgians interviewed. As for public-political and other types of activities, ethnic Georgians rarely deal with other ethnic groups, because of their dominating position.

Concerning the nature of interrelations between the representatives of various ethnic minorities, neighborly-friendly relations prevail over other types of relations – more than 70%. Family relations have the lowest percentage. In this case, mostly Armenians have family relationships (5.9%).

On the basis of the research the authors conclude that ethnic minorities, at least at a formal level, consider Georgia their motherland and are not alienated from the idea of Georgian statehood. However, at a practical level they are weakly equipped with the instruments of integration into public-political space and civil proximity.

The researchers conclude that generally the difficult foreign political situation and grave social-economic conditions significantly hamper ethno-cultural integration. Furthermore, ethno-nationalist tendencies and mythologies also impede civil integration. According to the study, ethno-nationalist tendencies are strong not only among ethnic Georgians, but also among minorities, likely caused by the Soviet legacy which produced powerful stigmatizations of social groups so that ethnically diverse post-communist countries now find the impacts quite difficult to overcome. Georgia especially has many unsettled problems of ethno-cultural minorities.

The authors of the research claim that most frequently the language barrier is blamed for the alienation of ethnic minorities. They found that a good command of a common language is an important tool and a good means for social communication and closeness. However language is not enough to eradicate ethno-isolationism. The world has witnessed many examples where a common language failed to eradicate tensions between ethnic groups.

“First and foremost, ethnic minorities should be given the motivation to ensure that their demand for civil integration becomes more powerful. This should not be only the result of a centralized policy dictated by the state. The relations between ethnic Georgians and non-Georgian ethnic groups are mostly motivated by their wish to have informal friendly-neighborly relations. This should be considered a supportive factor for ethnic closeness, but cannot become the only basis for their public-political integration and origination of common national interests,” the study says.

The research revealed that large groups of compactly residing ethnic minorities mostly produce their own “ethno-capital”, or identity, and basically distance themselves from external social impulses. This mostly concerns minorities where religion plays a decisive role in self-determination of ethnic identity. In the researchers’ opinion, it can be concluded that alienation and splitting actually exist even where there is social cooperation and closeness, therefore, the process of integration of ethnic minorities should, first and foremost, pass through promoting social integration, then strategies for their integration into public-political spheres should be built on this.
თბილისის უნივერსიტეტის პროფესორთა ღირსებათა და ბიზნესის პროფესორთა ნიშანის სახელში გამჩნევის ოთხი წლის ხანგრძლივობით საქართველოში.

თბილისის უნივერსიტეტის პროფესორთა ღირსება და ბიზნესის პროფესორთა ნიშანი ერთვის 2004 წლის თებერვალში და 2008 წლის დეკემბერში.

თბილისის უნივერსიტეტის პროფესორთა ღირსება და ბიზნესის პროფესორთა ნიშანი ერთვის 2004 წლის თებერვალში და 2008 წლის დეკემბერში.

თბილისის უნივერსიტეტის პროფესორთა ღირსება და ბიზნესის პროფესორთა ნიშანი ერთვის 2004 წლის თებერვალში და 2008 წლის დეკემბერში.
Scientific ‘Recipes’ for Business People

Throughout the history of human economic development, in order to meet the growing demand in the absence of sufficient resources, scientists and business people have puzzled over how to obtain quality goods and services. These difficulties become more problematic during market disasters when the development of events and procedures are vague.

According to P A Samuelson—American economist and first Noble Prize winner in Economics, and Economic Advisor to John F. Kennedy—research on markets relies on the prediction of costs and demands and each enterprise should consider the activities of other enterprises, i.e. its competitors, in advance. However, uncertainty and risk are and inseparable parts of the business world. Unlike events explained in the natural sciences (where the dynamics of causal events enable us to predict resulting events), economic development advances on the bases of statistical, probability and random regularities, which make the case even more complicated. This means that society will rarely get the desired economic outcome and this rare positive outcome can only be detected when big numbers can be analyzed. Thus there is a continual uncertainty in economic events, which is very hard to control.

Unfortunately, the economics of uncertainty and its management have not been properly studied in terms of their scientific and practical development. Due to this insufficient investigation of the economics of uncertainty, a group of academics gathered at Tbilisi State University, under the supervision of Professor Bikenti Gabidzashvili, to conduct further research on the issue. With financial support from the Shota Rustaveli National Science Foundation, the group conducted a project on “Business Tactics and Strategies in Conditions of Economic Uncertainty” and published three monographs, including Economic Uncertainty and Risks; Business Tactics and Strategies in Conditions of Economic Uncertainty; and Statistical Analysis and Methods for Economic Decision Making.

In order to evaluate business risks and economic uncertainties the Georgian academics analyzed systematically occurring factors and random factors. According to these academics, in general a businessperson should know that neglecting certain parameters might cause significant damage to his/her business. These parameters include supply, proportionality of the market, market fluctuation, tendencies of development, regularities, sustainability and sequence, business activity, commercial risk, the degree of monopoly and competitiveness in the market and the general business environment. However, analysing these parameters can only be done through careful and detailed statistical analysis. According to the co-author of the research, Simon Gelashvili, despite great demand there is a serious lack of statistical information in every business field.

To address these difficulties, the National Statistics Office of Georgia is undertaking several studies in the business field. These studies...
საქართველური ბიზნესი უკანასკნელ წლებში მრავალ აზარს უკვე გამოიყენა. 9. პოლიტიკური პრობლემების გამო, ხშირად შეთამაშებს ორგანოებს, რომელთა კი 3 დღიან. 10. მოთხილია სოციალური მდგომარეობის განრიგავები და მემკვიდრეობის დაღრუცვის წარმოშობა - გამოწვევის სახით, თუმცა ყურადღები რჩება, როცა დამოკიდებული სხდომა პუბლიკობი კორონა- ვირუსი, ამიტომ რთული თვალსაზრისში ჩატარებულ გამოწვევა - 8 ბალი დარღვევა.

გარდა ამისა, რომ მსოფლიოს ჩრდილოეთ ანგლეთში პუბლიკური სამართავოს სახეობები გამოყენების წარმოშობა და ამოქმედების არსებობა უფრო მკაცრი გამოიწვევა, პუბლიკური ცხოვრების პატივმოყვანები თქვენ თუ გარე ფაქტობრივი საფუძვლები გამოიწვევა. იმავე დროს, ჰქონდეთ შემდგომ სამრეკლო კომპანია, რომაც ახლო რაიონთან მიაკავებელი განათლების პირობები.

თანხმობის მიხედვით, ბიზნესის პროფესიონალები ფიქსირება აქვს ახლო ჯამში. როგორც პროფესორი სიმონ გელაშვილი მიითხევა, ბიზნესის ფაქტორები მისი ახალგაზრდული განვითარების სუბსტანცია.

ამავდროულით, საზღვარმოსილებული პირველ რიგში გამოყენებით უნდა რჩდეს, რის გამოც სამუშაოდ გაიზარდა ჩამოჭრილი ქვეპუბლიკური კომპანია.


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show there is an attractive business environment in Georgia. According to their research, 96 per cent of the functioning enterprises in Georgia operate in the non-governmental sector and 93 percent of enterprise turnover is accounted for by the non-government sector. The study shows that production output is gradually increasing. For instance, production output in 2005 was 5,838.3 million GEL, but rose to 7,412.6 million GEL in 2006, 9,645.4 million GEL in 2007 and 10,248.4 million GEL in 2008. Production output in all fields together was worth 4.4 billion GEL in 2004, and rose to 13.3 billion GEL by 2010. Consequently, there has been a significant increase in employment. In 2004, 323,000 people were employed but in 2010 it rose by 75,000 to 398,000. In 2004 the average salary in Georgia was 62 GEL a month, while in 2010 it is 593 GEL.

Notwithstanding these successes for the Georgian economy, academics believe that today Georgia is undergoing a crisis typical of a transitional economy, and in times like these, correct risk analysis is of immense importance. What business risks exist in Georgia and how can they be evaluated? – The results of research undertaken at the TSU Department of Economic Statistics (designed to provide trade and service analysis) were evaluated on a scale from 1 to 10, with 10 the measure of extremely high risk.

1. Development of demand and its sustainability is deemed unstable, and is given 5 points out of 10. 2. Development of supply and its sustainability is deemed average: 6 points, 3. Market capacity, i.e. the set of conditions necessary for receiving and selling goods is considered significant, and carries a low risk. 4. Competitiveness of goods is considered to be high: 2 points in terms of risk, 5. Level and intensity of competition is average, a 4 point risk, 6. Financial sustainability and creditworthiness are good with only 4 points. 7. Sustainability of supply is good, only a 2 point risk. 8. Commercial image is high, with a minimal risk of 1 point. 9. Reliability of distributors and trade services is considered sufficient: 3 points 10. Stability of the political situation and level of enterprise protection are poor, receiving 8 points on the risk evaluation scale. Although all countries have common business characteristics and problems stemming from internal and external factors, these characteristics differ from place to place. Georgian business likewise has its own specifics. As Professor Gelashvili points out, it is essential for business to have a stable internal and external political environment for business. Georgia’s external political situation is not favorable, due to the occupation of Abkhazia and South Ossetia, which has a negative impact on Georgia’s business perspectives for foreign investment. Obviously, only internal resources are not enough to ensure the proper development of the country. Social factors are also very important for Georgian business, especially the employment/unemployment levels. When business develops, employment levels increase, which naturally improves the living conditions. High purchasing power gives extra stimulus to starting businesses. However, when the unemployment rate is high, there is a potential threat of social unrest which impedes the feasibility of business development. Business success also depends on demographic factors. In order for businesses to succeed, the majority of the population should be economically active and qualified human resources should be available. Finally, Georgian academics agree that there is a lack of necessary information and knowledge in Georgia. “That is why today the business climate is chaotic. However, the time will come when business people realize that proper education and knowledge is a main prerequisite for success” said Professor Bikenti Gabidzashvili. Business professionals will thus find the ‘scientific recipes’ for doing business offered by TSU academics very useful.
A well-founded belief established in modern economic literature states that most serious risks to global economic stability emerge from the financial sector. Consequently, so the theory goes, special attention should be paid to the banking system, which is extremely vulnerable to change.

Global instability will have a significant impact on the economic situations of individual countries. The economic growth model developed in recent decades was based on the continued expansion of access to credit, but this has led the economy into global crisis and questioned the expediency of continuing to use this model.

The monograph by Prof. Irakli Kovzanadze Systemic and Borderline Banking Crises - Lessons Learned for Future Prevention should be discussed within this global context. The monograph was published by Universe, Inc (New York, Bloomington) in English in 2011.
ანდრი, როდესაც არის საბავშვო ხოჭი ყურა დაავადებიალობა ოფიციალური მონძალავალის საბავშვო სექტორში — დაფიქსირებული პოლიტიკის წარმოებისა, პოლიტიკური მოქალაქეის, ეკონომიკური ადმინისტრაციის, საქართველოს პრეზიდენტ-მარშალის და სახელმწიფო სამინისტროს
სამსახური.
„ამ სახელმწიფო სამსახურად უმოტოვო გარკვეული თავისუფალი საბავშვო სექტორის პლანირება — საბავშვო პოლიტიკის უწყვეტობა — გამოჩნდებოდა ძალაში, რომელიც გამოიყო არამეტაფორტელი და გამოტანილი სექტორის პოლიტიკის წარმოებით, რის შედეგადაც საბავშვო სამშენებლო საქმიანობა, საქართველოს პრეზიდენტ-მარშალის, საქართველოს პრეზიდენტ-მარშალის პოლიტიკის წარმოებით — გამოჩნდებოდა ძალაში, რომელიც გამოიყო არამეტაფორტელი და გამოტანილი სექტორის პოლიტიკის წარმოებით, რის შედეგადაც საბავშვო სამშენებლო საქმიანობა.
" — ამბავის თანამშრომელი საქართველოს პრეზიდენტ-მარშალმა.

ამზადება რეგულატორული პოლიტიკის მიზანი ჰქონდა, რომლის მიზანი ჰქოнდა, რომლის 2003 წლის თანამშრომელი გამოცემა. აქვს ღია თითები, მონძალავალი მოქალაქეში განაბრუნებაა ამჟამად, რომ ამავე თუ იმ ტერმინით არ მარტივია სამუშაო ერთობლიობა და მომუშაობა პროგრამების გზით მათ ადამიანები.

მონძალავალი 6 თავის შედეგის სიმძლავრის სამშენებლო სამუშაო ერთობლიობა და მთავარი გამოცემის დოკუმენტმა. აქვს ქალაქიანი, რომ ერთობლიობა მარტივია სამშენებლო სამუშაო ერთობლიობა და მთავარი გამოცემის, სამშენებლო სამუშაო ერთობლიობა, რომლებიც სამშენებლო სამუშაო ერთობლიობა სამშენებლო შეშინების სიმძლავრის სიმძლავრის გზით.

ყოველთვის თანამშრომელმა სამშენებლო სამუშაო ერთობლიობა მტკიცებულების რეგულატორული პოლიტიკის წარმოებით — გამოჩნდებოდა ძალაში, რომელიც გამოიყო არამეტაფორტელი და გამოტანილი სექტორის პოლიტიკის წარმოებით, რის შედეგადაც საბავშვო სამშენებლო სამუშაო სამშენებლო შეშინების სიმძლავრის სიმძლავრის გზით.

სავალახო გვერდით გამომხატველი უწყვეტობა გამომხატველი უწყვეტობა თავისი სრული ღირსშესანიშნაობა არ იქნებოდა. ხოლო 2003 წლის თანამშრომელი გამოცემა, არის უძრავი რეგულატორული პოლიტიკის წარმოებით, რის შედეგადაც იყო შესაძლებელი სამშენებლო სამუშაო ერთობლიობა სამშენებლო შეშინების სიმძლავრის გზით.

შემდგომ განვიხილოთ სავალახო ვრცელი მთავრობის საქმეები, რომლებიც გამოიყო არამეტაფორტელი და გამოტანილი სექტორის პოლიტიკის წარმოებით, რის შედეგადაც საბავშვო სამშენებლო სამუშაო ერთობლიობა სამშენებლო შეშინების სიმძლავრის გზით.

ამიტომ იქნებოდა, რომ ამ ხელთანხმებით მარტივი და ვრცელი გამოცემის ხმასმძღვარების სიმძლავრის გზით.

თუმცა თანამშრომელმა საქართველოს პრეზიდენტ-მარშალმა ამ საქართველოს პრეზიდენტ-მარშალმა უმოტოვო გამოიყენებოდა არამეტაფორტელი და გამოტანილი სექტორის პოლიტიკის წარმოებით, რის შედეგადაც იყო შესაძლებელი სამშენებლო სამუშაო ერთობლიობა სამშენებლო შეშინების სიმძლავრის მანძილობა.

70
I think that this is a handbook for all decision makers in the banking sector – monetary policy makers, law makers, etc. This is a kind of guidebook for top bank officials, regulators, parliamentarians; it will also be interesting for professors, lecturers and students,” Irakli Kovzanadze wrote. He said that the key goal of the monograph is to help countries avoid banking crises and find ways to prevent them. The English-language edition was preceded by the Russian version, published in Tbilisi in 2003.

The monograph consists of six chapters and describes the types of systemic banking crises and the different forms they take. The author concludes that the key sign of a crisis is a rapid and massive devaluation of bank assets, which stems from unfavorable macroeconomic, institutional and regulatory conditions. Kovzanadze offers a categorization of systemic banking crises and claims they are the result of the aggregated influence of systemic banking risks. Irakli Kovzanadze writes: “A systemic banking crisis is the result of the influence of multiple systemic, structural and institutional factors.” Along with other issues, the author focuses on two institutional factors: the necessity of a developed and effective system of deposit insurance and the role of an effective judiciary and tax system, especially when it is necessary to protect creditors’ and investors’ rights.

His research convinced Kovzanadze that restructuring the banking system is one of the key mechanisms for overcoming the present crisis and establishing a new, solid and dynamic banking sector. The author ascribes a significant role to the State in the restructuring of the banking system. To support this, Prof. Kovzanadze quotes figures and facts gleaned from restructuring practices carried out in various countries. The book examines all states which have experienced such developments, from the American continent (including Latin America, i.e. Argentina) to the post-Soviet countries.

In parallel with other findings Kovzanadze concludes that it is essential to create an efficient system of risk management in commercial banks, as this is one of the serious measures needed to prevent banking crises. Kovzanadze makes concrete proposals and recommendations on how to increase internal controls and risk management efficiency and put better risk management systems in place. “It is urgent for all banks to develop systems of complex banking risk management… the central bank can play an especially important role in this process. The introduction of such an efficient system at macro and micro levels will be a serious step ahead to avert systemic market crises. The question arises on whether there will be a market or a banking crisis, says Kovzandze.

He closely observed the most recent global economic crisis and its influence on Georgia’s economy during his research. While analyzing the problems of the banking system of Georgia, he concluded: “Serious problems emerged in the banking system of its influence on Georgia’s economy during his research. While analyzing the problems of the banking system of Georgia, he concluded: “Serious problems emerged in the banking system of Georgia just before the global financial crisis and Russia-Georgia war. The crisis and war have further deepened this problem.”

When asked the reason for the most recent world financial crisis, he responded: “It was caused by inadequate financial (banking) supervision and less than effective corporate management.” The second monograph by Irakli Kovzanadze Economic and Banking System Development Trends and Prospects for Countries in Transition, also published in the United States, is entirely built on a complex analysis of social-economic development of countries in transition and is based on important statistical data. “The work discusses the influence of financial globalization on the formation of a market economy, as well as the results and problems of the integration of Central and Eastern European countries into the European Union,” the author says. Work on this monograph took three years. During this period Kovzanadze researched the economies and banking systems of
Eastern Europe, Central Europe and former Soviet countries. He also studied the economic and banking system development in all these countries—the key trends, existing achievements and problems. The work specially focuses on Georgia. It offers a vision about what should be done in the country to provide sustainability to the banking system and ensure its continuous growth.

As the author says, the World Bank and the International Monetary Fund are interested in conducting research on this issue. The interest of Basel Committee on Banking Supervision to conduct similar research is also very important. The Georgian Professor's monograph about countries in transition is mainly designed for regulators and supervisors.

The significance of his monograph Systemic and Borderline Banking Crises - Lessons Learned for Future Prevention was reviewed by Zurab Gvasalia, President of the Association of Banks of Georgia, and Doctor of Economic Sciences Prof. Elguja Mekvabishvili. The review reads:

"We have a body of fundamental financial-economic research which provides a complex survey of the theoretical and methodological aspects of the emergence and development of systemic and borderline banking crises in the form of this monograph by Prof. Irakli Kovzanadze. Most important is that the work is written in the spirit of predicting and preventing future crises … Since the work pays particular attention to the prospects for the development of the Georgian banking system against the background of financial globalization, we consider it desirable to publish this work in the Georgian language."
What is the influence of tax on budgetary revenues, the growth of economics and production? What does an optimal revenue tax look like? What models exist to answer these questions and are they universal? - These are the major issues discussed in an article by Profs. Iuri Ananiashvili and Lado Papava entitled "Taxes, Production Technology and Economic Growth." This article is a result of several years of research, which aims to define how the State can stimulate economics through its fiscal policy. It was prepared at the initiative of the authors and published in the international academic and socio-political journal Society and Economics (Общество и экономика), № 4-5, 2011, Moscow.
„ჩვენ შევწყვიტებთ მოდელში, რომლის სახსრებიდან როგორც ჰორბი დაწყებით ლოგიკური ამოვე გამოვითავაზოთ პოზიციად თავის მოდელის იდეების გამოიყენება, გამოკვეთის რაიონის კონტექსტში, დამთავრებული თავად ჰქონს კონტექსტში" – ადგილობრივი ინსტიტუტი.

„ახალი თანახმად შეგვიძლია არ არჩევინათ – ამჟამად საქმიანობა არ შეგვიძლია არ შეგვიძლია, რომ ერთ რასოვანი მოდელით რთული დიდი მოვლენა ძახლოვანობაში აქმებითა და გადახვეთ ლობის სახეზე ათავსობა, ამიტომ სხვადასხვა ხელისუფლები მოხდათ სხვადასხვა იმედებით, ამის მიხედვით იმედით. ჩვენ გარიგებით, რომ იყო სულ იმედით კი არ გამოიყენოთა ერთმანეთი, როგორც ამჟამ მოკლე იმედით, ამასაც გარკვეული ერთობები და თანამშრომები.

ჩვენ შევიძლია მათი რთულობის არეალი - მათი რთულობის არეალი მათი რთულობის არეალი - საქართველოს დემოგრაფიის მოძრაობის სინგენებით, ამიტომ განხორციელდება როგორც განაპირობებული ხელისუფლები, ამიტომ ზოლის იმედით რთულობის არეალი. ჩვენ გამართული, რომ ჩვენი შევიძლია იმედით, რომ შესაძლო არ შეგვიძლია 

ახალი თანახმად შეგვიძლია არ არჩევინათ – ამჟამად საქმიანობა არ შეგვიძლია არ შეგვიძლია, რომ ერთ რასოვანი მოდელით რთული დიდი მოვლენა ძახლოვანობაში აქმებით და გადახვეთ ლობის სახეზე ათავსობა, ამიტომ სხვადასხვა ხელისუფლები მოხდათ სხვადასხვა იმედებით, ამის მიხედვით იმედით ათავსობათ სხვადასხვა იმედებით. ამ იმედებს სჭირდებათ ხოლო ერთმანეთი მოხდათ სხვადასხვა ხელისუფლები, ამის მიხედვით იმედით ათავსობათ სხვადასხვა ხელისუფლები. ამის მიხედვით იმედით ათავსობათ სხვადასხვა ხელისუფლები.
"We have created a model that is interesting both from the theoretical and practical points of view – anyone, from an ordinary economist to the authorities, can use it in line with their own interests," Iuri Ananiashvili says. "No such results have been found previously," Lado Papava says. "Actually, we have managed to put two controversial theories into one framework – the theory of stimulation of demand through changing tax rates, i.e. a Keynesian theory, and the theory of stimulation of supply through regulation of tax rates, which is a supply-side theory. We have demonstrated that the two theories do not exclude each other as was believed previously, but complement each other and coexist. We managed to describe them jointly, through a mathematical model, and then studied their characteristics."

This research offers a new vision of the Laffer theory (Arthur Laffer, American economist, former U.S. President Ronald Reagan's economic adviser, was co-author of the so called 'supply-side theory'). It also analyses the Laffer theory (see illustration) and the model built by Russian researcher Evgeny Balatsky, which he used to study the problems related to taxation using the examples of four countries (USA, UK, Sweden and Russia). According to a modern version of the Laffer theory, both budgetary revenues and the overall volume of economic production depend on the level of the average tax rate. At a certain level, the growth of the tax rate has a positive influence on both of them, but this is followed by a negative influence after a certain point. At the same time, there are two absolutely different purposes to tax rates, one if which is to achieve the maximum industrial effect, while the other is to acquire the maximum tax revenues. Balatsky described these meanings of tax rates as the 'first and second type Laffer fiscal points'; built and used a model created through the generalization of industrial function for their definition. The TSU academics illustrated in their research that this model demonstrates the roles of taxes in economics in a framework that is too narrow and not lying within the limits envisaged by the Laffer theory. Respectively the first and second type Laffer fiscal points defined on the basis of this can be called Laffer points only conditionally. They explain that the model reflects only one aspect of the influence of taxation, and output volume and budgetary revenues, connected with production technology and effective use of the resources involved are also important. The change of taxation and technology together have an influence on the volume of economic resource consumption and stimulate the growth or reduction of production and budgetary revenues while changing the involvement of resources in production. This latter issue is more important from a macroeconomic point of view. Therefore, one should focus on this while defining fiscal points and studying the role of taxation. Iuri Ananiashvili and Lado Papava believe that the model developed by them fully reflects the Laffer concept, because along with the first and second type of Laffer fiscal points it helps define the volume of economic resource consumption. They achieved this result through taking two factors into consideration. First, unlike the so called transformation model of Balatsky, they built a model of behavior wherein the modeling of entrepreneurial behavior in relation to taxation is described by a modified option of the entropy function. Secondly, they linked the tax burden to potential output level, i.e. output volume in situations of full employment. According to the model, one of the key determinants for reaching output potential output is the existence of the optimal tax burden.

It is worth noting that even Evgeny Balatsky has acknowledged the validity of the model developed by the Georgian researchers. He writes: "I agree with you that my points have an influence on the efficiency of resource consumption, while yours influence the scales of resource consumption, while yours influence the scales of resource use; this is an absolutely correct finding – everything is quite simple and simultaneously very important."

On the basis of this model, the academics analyzed the efficiency of the U.S. taxation systems from 1970 and 2008, basing their analysis on the official data provided by the U.S. Bureau of Economic Analysis (BEA) concerning the volume of economic resource consumption.
of GDP, average tax rate, labour force size and employment and unemployment rates. According to the results during the reporting period the U.S. economy had a non-optimal taxation system and for this reason it experienced a loss of gross domestic product of about 0.7% per year. The academics note that a similar analysis could have been conducted successfully in respect of Georgia’s economy if there had been reliable data for the past 15 years. Unfortunately, the National Statistics Office of Georgia does not provide any such information. However Papava and Ananiashvili do not rule out the possibility that their research may have serious practical value for Georgia as well. With this model the government can, if needed, forecast economic results if it seeks to maximise budget revenues through increasing the tax rates.

Lado Papava is a member of the editorial board of the journal Problems of Economic Transition, published in the United States. According to him, the April edition will be dedicated to the issue of tax rates and macroeconomic stability and three articles by Ananiashvili and Papava, as well as two articles by Balatsky, will be published. So, the results of the Georgian economists’ research will soon become available for English language readers too.
In developed countries oncological diseases come second place only after myocardial attacks as a cause of adult mortality (source: WHO, The Global Burden of Disease: 2004 update). Among oncological disorders, brain tumors are threatening notably because of their anatomical features, and by their exceptionally rapid progression and mostly fatal consequences.

In 2008 the Department of Neurology and Neurosurgery at Tbilisi State University (TSU) submitted a grant project to the National Science Foundation titled “Epidemiology of Primary Brain Tumors in Georgia: Prospective Population Study.” Such research has not been conducted in post-Soviet countries or even in Turkey before. Indeed TSU won its first international level scientific project under the scientific leadership of Roman Shakarishvili, the head of the TSU Neurology Department and working with colleagues-practitioners, Professors Davit Gigineishvili and Alexander Tsiskaridze. Epidemiologist Sabine Rohrman works as a scientist at the German Cancer Research Center and also participates in the Georgian project without any remuneration, as an expert in research methods and analysis.

Davit Gigineishvili, the Project Manager, works at the Sarajishvili Institute of Neurology and is Professor at the TSU Faculty of Medicine. He explained that the project envisages the creation of a database of people diagnosed with brain tumors from 2008.

In other countries databases of these illnesses are kept by a national registry of cancer. “Despite the Institute of Neurology and Neurosurgery’s great need for this data, we haven’t yet been able to create such an agency in Georgia, thus we took the initiative to collect existing data in the sphere of neurology. The research will last for three years. In the framework of the project, all cases of primary brain tumor diagnosed at Georgian neurosurgery clinics, diagnostic centers or hospitals that are equipped with computer tomography and magnetic resonance imaging, will be registered and studied prospectively.”
ქვეყნის ფართი. ადგილზე, წვდომა თავშე ადგილზე თავშე ადგილზე მათთავის ჭრიანის სიკვდილი არჩევები თალღამზე თამაშის უფლებას შეურაცხობით გაგზავნილი გამჭვირვალმა. ვერცხლი სახელმწიფომ. ამ დარტყმის პროგრამის დაკთხვის უდრის ბრძოლა და შეხვდა, საზღვარის მაქსიმალურ წინაპრების შემდგომ კადრებში, მომხმარებელთა ან შემზღაურ-ჭირდამწარმოების ან მთარგმლთა წინაპრების შემდგომ წინაპრებში, მომხმარებლმა ან მთარგმნელმა წინაპრების შემდგომ წინაპრებში, მომხმარებლმა ან მთარგმნელმა წინაპრების შემდგომ წინაპრებში, მომხმარებლმა ან მთარგმნელმა წინაპრების შემდგომ წინაპრებში, მომხმარებლმა ან მთარგმნელმა წინაპრების შემდგომ წინაპრებში, მომხმარებლმა ან მთარგმნელმა წინაპრების შემდგომ წინაპრებში, მომხმარებლმა ან მთარგმნელმა
The key goal of the research is to study the rates of primary brain tumor morbidity, relapse (recurrence of the symptoms of the disease), co-morbidity (the co-existence of two or more independent diseases or syndromes, when none of them complicates the other) and survival rates of the patients. It will seek to reveal the predictors of early and late mortality (preliminary rates) of brain tumor.

The research envisages detailed histological analysis and requires biopsy samples of the brain tissue. However, the research conducted by the TSU scientists will also include all patients diagnosed with tumors through non-histological analysis. Davit Gigineishvili explains that under western medical standards, the high level of histological analysis points to high standards of medical service. If 75% of patients are diagnosed with tumors through histological methods, the country can be proud of its medical sphere.

However, according to the data for the two years collected by the project participants, in Georgia the rate does not exceed 45%.

In order to obtain as much information as possible about the patients and possible causes of diseases, the TSU Neurology and Neurosurgery Department developed a questionnaire. The pilot epidemiological research carried out at the Sarajishvili Institute of Neurology and Neurosurgery on cerebral tumor types, morbidity and survival rates, has proven very useful for gaining experience and knowledge. The research was conducted on the basis of materials collected by the Institute of Neurosurgery over five years (1996–2000).

Tumor registry services exist in almost all developed countries, and are especially well-developed in the United States. European registries lag behind the U.S. in terms of the comprehensiveness of information, as such information depends on the hospitals’ goodwill to deliver data to the registry. The German partner from the Cancer Research Center at Heidelberg University raised this issue. Gigineishvili noted that Georgia does not face this issue, as 90% of the clinics existing in Georgia have become co-participants in the research. Owing to good connections, the scientists faced no problems in receiving the relevant information from the active neurosurgical departments of Georgian clinics.

The final goal of the research is to publish recommendations for healthcare reform. This research gives an opportunity for the first time to assess key epidemiological parameters of brain tumors in a post-Soviet country. The prospective nature of the research should minimize systemic errors. In the scientists’ opinion, the results will become the objective basis on which Georgian healthcare policy on brain tumor diagnosis and treatment will be built. According to existing data, it appears that the types of tumors revealed in our country are similar to those of western countries, which indicates correct diagnoses.

American neuro-oncology specialists unveiled an alarming conclusion quite recently at a medical conference in Garden Grove, CA. According to their conclusions, even in case of a benign tumor life expectancy is only six years on average. Considering such a conclusion it is essential to pay more attention to this disease and previous medical practices should be changed. “We can be proud that several clinics in Tbilisi are equipped with radiotherapy technology. However, there is no standardized, coordinated approach yet,” stated Gigineishvili.

Although the research is not yet over, and it is early to present any tangible results, when the Georgian team reported on the project at the Heidelberg Center last summer, their foreign colleagues did not make any serious remarks for changes in the project. The TSU Neurology Department submitted its report on the primary data of the research on behalf of Georgia to the Congress of the European Cancer Organization in Stockholm this year.
As of December 1, 2011 a total of 3080 cases of HIV infection have been registered at the Infectious Diseases, AIDS and Clinical Immunology Research Center. 1891 patients have developed AIDS, while 680 patients have died. Presently, 1066 patients, including 39 children are on antiretroviral therapy in the country. The analysis of new HIV cases for past years has shown the tendency of slow, but stable growth of new HIV/AIDS cases. It is worth noting that unlike former Soviet countries, Georgia managed to avoid the explosive spread of the epidemic and today it belongs to low HIV prevalence countries. Georgian scientists and international experts explain it by timely initiation of HIV/AIDS-related practical and scientific activities in the country that laid the foundation for the creation of evidence-based modern medical service in the field of HIV/AIDS.
ჰივური გავრცელების პროგრესია შეიძლება დაკავშირებითი იქნას ნუკლიუსურ მკვლევრულ მკვლევრთან, 1985 წლიდან დამორჩებული. ამ მხრივ ჰარითი ჰივური ურთიერთობები იყო მოშორებით და ადამიანებთა გონიოს შეფასებაც. 1990 წლიდან ის შიდა მკვლევრები, გონიოს ჰარით ემოციურად ჰარითი ემოციურად ჰარითი ურთიერთობა, მიღება და ხელმისაწვდომობა თავისი უნივერსალურ უმოსიმენების ჩართულ ჯგუფად გამოჩენილი ფრაქცია 40-ში უკან ჰარითი ჰარითი ურთიერთობა, ზოგიერთი მექანიკური კოვერტაცია უკთვალი ჰარითი ურთიერთობა ჩართულ ჯგუფად. ამ პროცეფში უპირველი გაზომილი მნიშვნელობით ურთიერთობით ნელსახელო რომელთან შორის პერშორი სტისტიკური განვითარება მიიღება საბოლოო მნიშვნელობა ჰარითი ურთიერთობა რეჰმას არაა შეცვლილი.

ჰარითი ჰარითი ურთიერთობები სახელო რომელთან შორის ჰარითი ჰარითი ურთიერთობა, ამჰარო თბილის თბილისის შათებიდან მოხვედული მასწავლებელური საგარემო ჯგუფად ჰარითი ჰარითი ურთიერთობა,

The work over the HIV/AIDS problem started in Georgia in 1985 under the guidance of Professor Tengiz Tsertsvadze. In this respect, Georgia was one of the first countries throughout the world and the first in Eastern European countries. In 1990, for the first time in former Soviet countries, the AIDS and Clinical Immunology Center was established; later the Infectious Disease and Clinical Immunology Department was set up on its basis at the Medical Faculty of the Tbilisi State University (TSU).

Research activities, which generated much needed evidence, significantly contributed to the establishment of an effective AIDS control services. For over two decades these activities are being led by Tengiz Tsertsvadze, the head of the Infectious Disease and Clinical Immunology Department at TSU, and his team. This team implemented over 10 research projects in the field of HIV/AIDS and the findings were published in prestigious scientifical journals. It is worth noting that besides leading specialists of the Department (T. Tsertsvadze, L. Sharvadze), the following PhD candidates are also actively involved in the scientific activities: M. Karchava, N. Dvali, N. Chkhartishvili, A. Abutidze, N. Badridze, E. Dolmazashvili, L. Gatsereleia and M. Svanidze.

What are the peculiarities of the spread of HIV infection in Georgia and how does the epidemic develop in the country – important researches have already been carried out in this respect. Among them the cohort study carried out in 1997-2001, involving 2 400 high risk persons, deserves particular attention. This was one of the first longitudinal studies among former Soviet Union countries that prospectively assessed the prevalence and incidence of HIV infection, and related risky behaviors among injection drug users, commercial sex workers, persons having sexually transmitted infections, tuberculosis patients, blood donors, internally displaced persons and students. The work had an important scientific and practical value. HIV/AIDS prevalence and incidence in these groups was identified through scientifically reliable methods; the peculiarities of spread of HIV infection were described and a dominant role of injection drug users in the spread of epidemic was revealed.

While studying the peculiarities of HIV epidemic, it is important to describe the distribution of HIV genetic variants (subtypes). For the first time, Georgian scientists carried out full-length genome of viral strains circulating in countries of the former Soviet Union. The research showed that in Georgia HIV epidemic is represented by mixture of subtype A (imported from former Soviet countries) and subtype B (imported apparently from Western Europe).

Subsequent HIV molecular epidemiology studies confirmed a genetic link between the viral strains circulating among injection drug users and women infected through heterosexual contacts. It means that injection drug users and their sexual partners are the main targets of AIDS response measures. Currently, there are two major modes of HIV transmission in Georgia: injection drug use (55.6% of registered cases) and heterosexual contacts (37.5% of registered cases). (Chart) And still, how Georgia avoided explosive outbreak of HIV, when in the former Soviet countries, the epidemic reached alarming magnitude? There was hypothesis that this might be linked to high prevalence of genetic marker (particularly CCR5Δ32) in the Georgian population, which protects a person against infections. Based on the conducted research, it was finally concluded that low prevalence of HIV infection in Georgia is not determined by the frequency of this mutation, while in some patients slow disease progression can be linked with another genetic marker - SDF1 polymorphism.
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venciis RonisZiebebis SemuSaveba” mieniWaT medicinis dargSi erovnuli premia.
Antiretroviral therapy (ART) was successfully introduced in the country owing to Tengiz Tsertsvadze, Lali Sharvadze and their colleagues. Since 2004 Georgia remains the only Eastern European country to ensure universal (100%) access to ART for all HIV/AIDS patients in line with international standards. The large cohort study showed the effectiveness of antiretroviral treatment program in terms of reduction of AIDS-related morbidity and mortality in Georgia. Moreover, the study showed that with the use of modern methods of treatment monitoring and surveillance of treatment adherence, ART is equally effective for both drug users and non-users. This finding is among the few published reports, which questioned a widespread opinion that antiretroviral treatment is less effective among injection drug users because of their lifestyle. As the representatives of the center mentioned, along with the achievements, studies identified problematic issues that need to be resolved in order to improve HIV disease outcomes. For example, the research identified high rates of early mortality due to tuberculosis and hepatitis C. To address these issues, starting from 2011 HIV infected persons are receiving free anti-hepatitis C treatment along with antiretroviral therapy; also, modern methods of tuberculosis diagnosis (GeneExpert MTB/RIF, T-SPOT. TB, Quantiferon-Gold in Tube) were implemented, etc. One of the important accomplishments of Tengiz Tsertsvadze and his team is the significant reduction in vertical transmission of HIV in Georgia, also known as mother-to-child transmission. Georgian scientists have shown that prophylactic antiretroviral treatment of an HIV positive pregnant woman by combination of three medicines and then prophylactic treatment of a newborn during four weeks is most effective in terms of reduction of HIV transmission risks. It should be noted that not a single case of mother-to-child transmission has been observed since 2005 among the pregnant women treated under this scheme. To summarize, the research studies conducted by the Infectious Disease, AIDS and Clinical Immunology Research Center and the Infectious Disease and Clinical Immunology Department of the TSU Medical Faculty served as the basis for creating a modern, effective AIDS Control and developing anti-AIDS strategy. As a result, the country managed to avoid rapid increase in the number of new HIV cases and large scale epidemic. Consequently, the country was able to averted not only heavy toll on human lives, but also serious economic impact. For these achievement, namely as described by World Health Organization for “pioneering work on AIDS and viral hepatitis, and outstanding contribution to the fields of HIV/AIDS and other communicable disease”, in 2009 the Infectious Diseases, AIDS and Clinical Immunology Research Center led by Tengiz Tsertsvadze was awarded with the World Health Organization’s Dr LEE Jong-wook Memorial Prize for Public Health. Not a single medical institution in Eastern European countries has received this prize so far.

In 2011 Tengiz Tsertsvadze and his team members (Lali Sharvadze, Ketevan Stvilia and Nikoloz Chkhartishvili) were awarded the National Prize in Medicine for their works on “Study of the peculiarities of the spread of HIV/AIDS in Georgia and design of treatment and prevention interventions.”
1941 წლის სექტემბერიდან საჯაროების პირველი წელის დღემდე აღადგინია. 1942 წლის 13 აგვისტოდან საჯაროების პირველი ცხოვრების დაწყება მთა იარუსისის სააკადემიის ქართული ლიტერატურის ისტორიის ინსტიტუტის სახელწოდებით. ინსტიტუტი შეიქმნა ნაცირობის მიხედვით. 1942 წლიდან 13 აგვისტოდან საჯაროების პირველი წელის დღემდე აღადგინია.

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Shota Rustaveli Institute of Georgian Literature at TSU

Cultural dialogue is a major lever for Georgia to become a participant in the course of the world’s cultural processes. It is impossible to create a cultural map of the Caucasus region and Europe without familiarizing oneself with Georgian literary development. What has Georgian literature given to the international literary world and vice versa? Why is it important that the process take place in both directions? Through its activities the Shota Rustaveli Institute of Georgian Literature brings answers to these questions.

BACKGROUND

The Academy of Sciences of Georgia was set up in 1941 and on August 13, 1942 the Shota Rustaveli Institute of the History of Georgian Literature was established within that institution, with the aim of becoming a center of research for Georgian literature and folklore studies.

The main goal of the Institute’s scientific work was to study and publish the lesser-known issues of folklore and Georgian literature as well as the ongoing literary processes. The Institute was founded to critically discuss scientific literary heritage and prepare a rigorous course of the history of Georgian literature of the highest standards.

The first Director of the Institute was Korneli Kekelidze (1942-1949). Today that position is held by Dr. Irma Ratiani. The Institute was restructured in 2006, and a new scientifically-oriented research strategy was developed. An agency for publishing was created to match European and American standards, and the system is known today as the citing style of the Institute of Literature.

TODAY

The internationalization of scientific research and an orientation towards modern international philological standards can be considered the Institute’s key achievement. Ten projects submitted to national and international funders by the Institute have been financed since the establishment of

ქართული ეპოქა, 2007 და 2008 წლებში, ინსტიტუტში შეიმუშავა და გამოცემებული ანგუსტა ირი საზოგადოობის კოდექსი: „საცავი ახალგაზრდულ არგენტინულ საზოგადოობის საზოგადო პრაქტიკი“, XX საუკუნის გამოცემი. ამ პერიოდში გადაიზარდა საზოგადოობის როლი ქართული ეპოქაში, იმის მიზეზით, რომ საცავებს და რეზერვებს ლიტერატურული დისპოზიციით: ქართული ლიტერატურის პედაგოგია, ფილოლოგიის ტექნიკა და სტატისტიკა. XX საუკუნის საუკუნებში, იქმნებოდა „ყორამ“ და „ლიტერატურული გამოცემი“.

ინსტიტუტის პროფესორის ასოციის როლი შეიცავდა საზოგადოობის ქართული ლიტერატურაში ახალგაზრდული გამოცემის საშუალო ცვლილებას. ანგუსტა ანგუსტაზე, ქართულ-ინგლისურ ლიტერატურაში ახალგაზრდული გამოცემები. ინსტიტუტის პროფესორი გამოუშვა „სოფლის მოხატვა“ და „ფილოლოგია ქართულ ეპოქაში“. ქართული ეპოქის მნიშვნელოვანი ისტორიული ადგილი აქვს ვერსუალურ მხატვრობაში. რომელიც გადაიზარდა საცავის შუა დროებში.

მაინც ინსტიტუტის პროფესორი იმედი და მონაწილეობა ლიტერატურულ კოლეგიაში მიიღო, მისი გამოცემები ინსტიტუტის საზოგადო პროგრამაში მიიღო, და ის ჰქონდა ნომრავლი ბოლო სამუშაო პროექტებში, რომელთაგან ერთ-ერთი აქვს საკუთარი მკვლელობის კონკურსი, რომლის ჯილდო იქნა ღირსმული ახალგაზრდის საზოგადო პროგრამაში. ინსტიტუტმა მიერ შეირთო ინსტიტუტის პროფესორი, რომელიც გამოცემული მისი მნიშვნელოვანი ისტორიული ადგილი აქვს ვერსუალურ მხატვრობაში. რომელიც გადაიზარდა საცავის შუა დროებში.

Irma Ratiani - Director of Shota Rustaveli Institute of Georgian Literature;
Full Professor at the faculty of Humanities of Iv. Javakhishvili Tbilisi State University; Ph.D.in Philological Sciences; winner of national grant competition; member of European Network for Comparative Literary Studies; President of Georgian Comparative Literature Association; member of International Comparative Literature Association; Chief Editor of scientific literary journals „Sjani” and „Litinfo” winner of several local and international grant projects; participant of several international and local scientific conferences and symposiums; author of 8 books and more than 70 published scholarly articles.

მაინც ინსტიტუტის პროფესორი იმედი და მონაწილეობა ლიტერატურულ კოლეგიაში მიიღო, მისი გამოცემები ინსტიტუტის საზოგადო პროგრამაში მიიღო, და ის ჰქონდა ნომრავლი ბოლო სამუშაო პროექტებში, რომელთაგან ერთ-ერთი აქვს საკუთარი მკვლელობის კონკურსი, რომლიც გამოცემული მისი მნიშვნელოვანი ისტორიული ადგილი აქვს ვერსუალურ მხატვრობაში. რომელიც გადაიზარდა საცავის შუა დროებში.
the Shota Rustaveli National Science Foundation (previously, Rustaveli Foundation). These include the Open Society–Georgia Foundation, UNESCO, the Ministry of Culture of Georgia, M. Mamardashvili publications assistance program at the Alexandre Dumas French Cultural Center, German Publisher Schürrbang Verlag, the Hungarian Literature Support Center and the U.S. publisher People World Cthering.

At the present time nine projects have been submitted to the National Science Foundation and three to international funders. The Institute spares no effort to popularize Georgian literature and science abroad: through the support of the Institute, the translation of a novel by Otar Chiladze A Man Went Down the Road is nearing completion in the USA and in 2012 a Cambridge UK publisher will issue a collection prepared at the Institute of Literature, Totalitarism and Literary Discourse. Among scientific publishing projects implemented at the Institute over recent years, a special place is accorded to academic works, which—besides their literary value—have a cultural mission. The publication of the academic works of Ilia Chavchavadze in twenty volumes is being finalized; the first ten volumes (of twenty) of the academic works of Akaki Tsereteli are ready for publishing; Vazha Pshavela’s selected works in three volumes is also completed. Within the framework of a grant the Institute’s Folklore Department has prepared and published a unique collection, Anti-Soviet Narratives. The Institute of Literature has undertaken the publication of educational projects for students and other readers of literature, for example the book by Adrian Marino, which is a translation of a textbook with comments, Comparative Literary Criticism, for which the Institute of Literature won an award. Since 2008 a seminar held twice a month entitled “Discourse Horizons” has been successfully functioning at the Institute, which also implements a project called “Author’s Voice” that provides constant, active contacts with literary critics and contemporary Georgian literary figures. The Institute is also carrying out a training program for teachers entitled “Science for the Future – Teachers’ Professional Retraining” to assist teachers improve their professional development and prepare for certification exams. In 2007 the Institute of Literature laid the foundation for an annual international symposium called “Contemporary Issues of Literary Criticism” which is gradually acquiring a thematic nature. The first three symposiums were dedicated to general issues of literary criticism, and in 2010 it was dedicated to Akaki Tsereteli’s anniversary with the theme “The Epoch of Classical Realism”. In 2011 the symposium “Vazha-Pshavela 150: Mythological Thinking, Folklore and Literature, the European and Caucasian Experience” was dedicated to Vazha Pshavela’s 150th anniversary. Attendance at the symposium is increasing yearly and in 2011 it hosted 59 foreign guests from 19 countries including the US, UK, France, Germany, Bulgaria, Romania, Czech Republic, Iran, Armenia, Azerbaijan, Kyrgyzstan, Kazakhstan, Lithuania, Latvia, Estonia, Russia, Ukraine and others.

In 2007 and 2008 the Institute held two other international conferences: “Ilia Chavchavadze: Epoch and Creator” and “Totalitarism and Literary Discourse. Experience of the 20th Century.” The latter had a wide echo internationally, with over 40 scientists attending. The materials will be published in the UK in 2012. In addition to international conferences, the Institute annually holds local conferences and scientific sessions.

For more information, visit the Institute's website at: www.litinstituti.ge

MISSION AND CHALLENGES

The key mission of the Institute of Georgian Literature is to protect, maintain and further develop the most important branch of Georgian studies. To fulfill this mission studies are being conducted in the main philological directions: history of Georgian literature, theory of literature and comparative literary criticism, folklore studies, Rustvelology, Galaktionology, textology, etc. The Institute maintains the following philosophy—that cultural dialogue is a major lever for Georgia to become a participant in the world’s cultural development. Dr. Ratiani, Director of the Institute, said, “Only a few months have passed since the scientific-research institutes integrated into Tbilisi State University so it is early to talk about final results, but one thing is quite clear: the Institute of Georgian Literature is strong. It is a well-organized institution that serves the country’s interests qualitatively and with professional honesty by studying the issues of Georgian literature and literary studies and by making these issues known internationally. The future of the integration of the Institute of Literature into TSU will see the further strengthening of our mission and a strong promotion of research.”

Article prepared with information provided by the Shota Rustaveli Institute of Georgian Literature at TSU
ისლ-ინგლისური თბილისის სამათიკური ინსტიტუტი (A. Razmadze Mathematical Institute)

ნისათით ამ პროგრამისთვის სხვა მათემატიკური ინსტიტუტები, როგორებიცაა: თბილისის სამათიკური ინსტიტუტი, სახელმწიფო უმაღლესი საგანმანათლებლო და სამოქალაქო სოჭემი, აგრეთვე სამათიკური კალავალიკური ინსტიტუტი თბილისში,

"Journal of Contemporary Mathematical Analysis" (Proceedings of A. Razmadze Mathematical Institute) და "Memoriams of Differential Equations and Mathematical Physics" ჰაბიტატიზირებული ცენტრებისა და სამათიკურ ჯURNALIS 2008 წლის 20 აგვისტომდე მათემატიკური გვიანთა შეხედულებისა შემდეგ, 37 წლის 140 სამათიკური წლის შემდეგ.

2010 წლის გამარჯვებამდიდვე მიღებაში 9 საათურელი პროგრამა და მისი რეალიზაციისთვის, სამათიკურ ჯURNALIS 2010 წლის შემდეგ ოთხგანი მოდელის შემდგომ 2 საათურელი პროგრამა სამათიკურ ჯURNALIS 2010 წლის შემდეგ დამოუკიდებლობამდიდვე 4 პროგრამა.

2010 წლის გამარჯვებამდიდვე მიღებაში 9 საათურელი პროგრამა და მისი რეალიზაციისთვის, სამათიკურ ჯURNALIS 2010 წლის შემდეგ დამოუკიდებლობამდიდვე 4 პროგრამა.

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Andria Razmadze Mathematical Institute at TSU

“Now, as the Institute has been transferred to Tbilisi State University (TSU), it opens up new opportunities for turning TSU not only into the center of doctoral programs in mathematics and theoretical physics, but also for raising the scientific qualifications for professors from other universities”.

BACKGROUND

Mathematical research was launched in Georgia when Tbilisi State University was founded in 1918, initiated by the first Georgian mathematicians A. Razmadze, N. Muskhelishvili, A. Kharadze and G. Nikoladze. On October 8, 1933 a Scientific-Research Institute of Mathematics, Physics and Mechanics was set up under Tbilisi State University with N. Muskhelishvili as Director. Later V. Kupradze became Director of the Institute (1935-1941) and between 1941 and 1976 the Institute was led by N. Muskhelishvili. As a result of fundamental results achieved by the Institute staff in the mathematical theory of elasticity, singular integral equations, complex and real variable analysis, differential equations and mathematical physics, topology, numbers theory and computational mathematics, the Institute gained a high scientific reputation throughout the world.

TODAY

Since September 2010 the Institute has been functioning again under Tbilisi State University and from June 2006 to April 2008, N. Partsvania was Acting Director and is now Director. Presently the Institute is comprised of nine scientific departments. The National Academy of Sciences of Georgia has awarded the Institute four times as the Best Scientific-Research Institute in the fields of physics and mathematics – in 2007, 2008, 2009 and 2010. Since 1937 the Institute has published a scientific journal entitled “Proceedings of the A. Razmadze Mathematical Institute.” The Institute founded another international scientific journal in 2008, the “Georgian Mathematical Journal”, and it entered the list of scientific journals with an impact factor. The journal “Proceedings of A. Razmadze Mathematical Institute” and “Memoirs on Differential Equations and Mathematical Physics” are regularly sent to 140 scientific institutions in 37 countries throughout the world within programs of scientific publications exchange. During 2010 the Institute developed nine budgetary programs and Shota Rustaveli National Science Foundation’s 12 grant projects. The Institute staff participated in two grant projects along with other Georgian scientific institutions. During the same year, employees of the Institute participated in four projects funded by foreign grants, which was the case for the preceding three years.

The Institute received 23 grants from the National Science Foundation and since 1993 the Institute staff has participated in over 70 international grant projects. This list is posted on the Institute’s website. Frequently the Institute organizes or co-organizes international scientific conferences. In 2011 the Institute was co-organizer of the following international conferences: “Continuum Mechanics and Related Problems of Analysis” dedicated to the 120th birthday anniversary of academician N. Muskhelishvili (September 9-14, 2011, Tbilisi). “Modern Algebra and Its Applications” (September 19-25, 2011, Batumi). “Recent Advances in Quantum Field and String Theory” (September 26-30, 2011, Tbilisi).

In 2010 the Institute staff published 74 scientific articles, 31 of which were published in journals with peer reviews; in 2009 – 92 articles with 37 in peer review journals. The full list of scientific works published by the Institute staff during last 10 years is available on the Institute’s website. The same website offers the list of 128

Nino Partsvania - Director of Andrea Razmadze Mathematical Institute of I. Javakhishvili Tbilisi State University and Senior Researcher at the department of Differential Equations of the same Institute; Full Professor at the faculty of Business Management of International Black Sea University; Ph.D. in Physics-Mathematics; member of the Research and Development Council at President of Georgia; member of the Academic Council of International Black Sea University; Associate Editor of “Memoirs on Differential Equations and Mathematical Physics” and member of Board of Editors of “Miskolc Mathematical Notes”; winner of 14 local and international grant projects and scholarships; participant of number of international and local conferences; author of 42 published scholarly articles.


**INSTITUTE’S MISSION AND CHALLENGES**

According to the Institute's leadership, the above information confirms that the Institute is one of the leading scientific institutions of the country. “Such scientific centers need serious support. Moreover, it is extremely important that the Institute with such potential be used comprehensively in the affairs of educating new generations of scientists. For decades new staff was mostly educated in mathematics in courses of post-graduate studies. After the well-known reform, when the academic institutions were deprived of the right to prepare post-graduate students (doctorates), the arrival of new forces to these sciences, and particularly to mathematics, has sharply decreased. That undoubtedly poses a threat to the development and even existence of a mathematical school in Georgia. Now as the Institute is under Tbilisi State University, a new opportunity has arisen to turn the Institute not only into a center of doctoral programs in mathematics and theoretical physics, but also into a center for raising scientific qualifications for professors from other universities. Temporary positions will be held by new PhDs from various universities (postdoctoral positions) as well as university lecturers on sabbatical leave. This is what Europe's scientific system looks like.”

*Article prepared with information provided by the Andria Razmadze Mathematical Institute at TSU*
It comes as no surprise to anyone to see schoolchildren in the classrooms of Tbilisi State University (TSU). Today any pupil from Georgian schools has an opportunity to learn about science. They can “test” their knowledge of chemistry or physics in TSU laboratories; they can learn more about Georgian history by visiting archaeological sites and can talk about geography during excursions. They can explore the starry sky during TSU astrology lessons and learn foreign languages in courses for young humanities students… Children can choose any subject of interest and expand their knowledge at the Unijunior at TSU of the Ivane Javakhishvili Tbilisi State University. The Unijunior at TSU is a unique project in Georgia, established in 2007 within the framework of the Research and Development Department of Tbilisi State University.
The Youth schools were created within all faculties of TSU. Today there are 19, and despite their different profiles and specialties, all have a single mission – to prepare motivated and educated students for higher educational institutions. Young people in grades 6-12 can take lessons at the Unijunior at TSU, which assists would-be students to cope with the university curriculum, selecting various specialties relevant to their interests and skills, and awakens their interest in science and other subjects. Marina Lomouri, Adviser to the TSU Rector and Coordinator of the Unijunior at TSU, believes that this is one of the preconditions for a successful university career. Since autumn 2011 TSU’s Unijunior at TSU has become a full member of the European Children’s Universities Network. The latter unites Children’s Universities existing within more than 130 leading European universities, for example in Germany, Austria, Great Britain, Switzerland, Holland and Poland. For the Georgian Children’s University this is an important recognition of its importance.

“Economics is my favorite subject. I have learned and studied a lot during the lectures at the Tbilisi State University. Lecturers told us interesting things about economic issues. I studied not only the political and economic aspects of our country, but also learned how to make decisions on economic issues,” said Irma Kekelia from Tbilisi’s public school No 87.

“I came to the School of Young Economists to get acquainted with the Faculty of Economics superficially at first, and then comprehensively, because I want to continue my studies at this university. Most of all, I liked the lecture delivered by Ms. Eter Kharashvili,” - said Tiko Kupradze from public school No 182.

Such comments by schoolchildren were posted on the Young Economists’ website as far back as 2008. During the very first year 100 pupils with an interest in economics from 20 public schools attended lectures in TSU’s Maglivi Building. Since then, the number of pupils has significantly increased. “I hope that events arranged by the School of Young Geographers will serve as a good incentive to acquire more knowledge; it is a good means to debate issues and develop presentation skills. Moreover, it promotes friendship between schoolchildren from different schools. I think we can reveal especially talented and skillful schoolchildren through intellectual competitions,” says Dali Nikolashvili, Associate Professor at the TSU Department of Geography and Coordinator at the School of Young Geographers. During the 2009-2010 academic year 450 auditors were registered in this School.

“The lectures are not difficult. The lecturers explained everything in the simplest terms. At the end of each lecture I asked questions. I especially like the lectures delivered by Marika Elizbarashvili and Jumber Lezhava on the Bermuda Triangle and ant invasions in the desert. Now when our geography teacher is explaining a lesson at school, I sometimes already know what she is talking about. I had never participated in children’s conferences/competitions on geography, but I definitely take part in future,” said Erekle Bagashvili, a grade 11 pupil in Tbilisi’s public school No51. He left his public school several times to attend lectures at the University. Schools from other regions of Georgia are also actively involved in the competitions and quizzes organized by the Unijunior at TSU. For example, Shota Shishmanishvili won the prize at the Conference of Young Geographers organized by the School of Geographers in 2010. His theme, “Grape Juice – A Vivid Chronicler of Mankind” became part of a University publication. Pupils from public schools in Tbilisi, Khashuri, Sagarejo and Rustavi participated in the 5th Conference on Biology and Medicine entitled “Yesterday, Today, Tomorrow”, held at the Faculty of Exact and Natural Sciences under the auspices of the Unijunior at TSU. Davit Mekoshvili, who is in grade 9 at St. George and Ekvtime Mtatsmindeli Gymnasium, entered the competition at his own initiative, though he had never been an auditor at the Unijunior at TSU. Since he was interested in issues related to human psychology he submitted a theme “Euphoria” for the competition and for two weeks he prepared his six-minute presentation.

TSU has already signed cooperation memorandums with eight schools in Tbilisi and two in Rustavi, both public and private. Marina Lomouri, Coordinator, says the agreement regulates the implementation and promotion of joint educational activities. “Base schools” were selected in other regions for cooperation. They will receive a course of lectures prepared by TSU academic personnel and designed for any interested pupil from any school throughout the region.

Beginning with the 2010-2011 academic year, the School of Astronomers began functioning in the Unijunior at TSU. Lectures are now held three times per week, with about 100 pupils from two Tbilisi schools and one from Rustavi attending the lectures.

Studies at the Unijunior at TSU are free. TSU professors and lecturers deliver lectures, and interested pupils from any school can attend without passing examinations. For information on relevant subjects and schedules, see www.tsu.edu.ge
Long ago, on December 19, 1917, when the establishment of an educational program for Tbilisi State University was being discussed, the Board of Professors also heard the reading of Kita Abashidze’s will by Ivane Javakhisvili. In his will, Abashidze—a prominent Georgian publisher—presented his private book collection to the university. It became the cornerstone of the Tbilisi State University library.
Following Kita Abashidze’s donation, the Tbilisi Theological Seminary, the Black Stone Industry Council, the former Caucasian Censorship Committee, the Society for the Expanding Literacy among Georgians, the Tiflis School for the Nobility, and other institutions, presented their books to the university library collection. Furthermore, the custodians of the Great Prince’s library that was kept in Likani, Georgia, bestowed a collection of unique Russian books. The library also received private book collections from Davit Sarajishvili, Svmmon Kldiashvili, Petre Melikhvili, Ekvtime Takaishvili, Alexandre Tsagareli, Dimitri Bakradze, Tedo Zhordania, and Vasil Petriashvili. Predictably, within two years of the university’s establishment, a unique collection of more than 100,000 Georgian and foreign books were acquired by the university library.

One of the rare books preserved in the university library is Sakhareba (The Gospel) published in Tbilisi by the printing house of Vakhtang VI in 1709. Its cover is decorated with double etching and iconic paintings of the Blessed Virgin, Jesus Christ, and John the Baptist. Other rare religious books, published by the same printing house, include Samotsikulo (Apostles) and Davitini (Psalms). This edition of Davitini exists only in the Tbilisi State library. The books Kondaki, Locvani (Prayers) and Zhamni (Times) published in the printing house of Vakhtang VI date back to 1710. Similar publications printed in Georgia in the following years, now are included in the university’s Rare Book Fund and are just a part of the treasury preserved in the university library for the future generations.

The university library is the repository of the most famous and oldest works in the Georgian language. The most noteworthy liturgical texts include: ‘Tkshovreba Tsminda Ierominess’ (Life of Saint Jeronimy) printed according to the Incunabula style invented by Guttenberg in 1484, Colloquium by Eraz Roderdaelm published in Amsterdam in 1526, Georgian Alphabet with Prayers published in Rome in 1629 and Davitini (Psalm-book) published in Moscow in 1705. The following books: Zatiki, Markhvani (Fasting), Paraliks (church service) and Sakhareba Gamokrebuli (Selected Gospel) were also published in Moscow. In 1741-1797, two publications of Sakristiano Modzgvreba (Christian Doctrine) were published in Rome.

Along with the liturgical books, the library’s index catalogue includes famous secular texts such as The Knight in the Panther Skin published in Tbilisi in 1712 and Kitais Sibrdzn (Kitai Wisdom) published in 1784.

The university library has an extensive collection of nineteenth century books printed in Moscow, Tbilisi, Kutaisi and Sachkhere. The sole edition of Sakhareba Matesi (Mate’s Gospel), published in the Sachkhere printing house in 1817, is preserved in the university library. Another noteworthy book is “Shekreba Rusulita Ubnobata, Szazgadod Tkshovrebasa Shina Sakhmarebelta, Darvta Kartulis Targmnisasata, Sasargeblos Ktelishobita Krmata” (a Georgian translation of the general rules of life for noble youngsters) published in 1819.
In addition to these texts visitors to the library can find the following manuscripts: ‘Aristotle’ published in St. Petersburg in 1818, Encyclopaedia anu Shekrebiloba Stsavalta Hazrrtani (Encyclopaedia, 1823), Kartuli Krestomatia (Georgian Text-book) by Davit Chubinov, Istoria Datskebitgan Iveriisa, ese igi Giorgisa, Romel Ars Sruillad Sakartveloisa (History of Georgia since the establishment of Iveria) by Teimuraz Batonishvili, Vard-Bulbulian Natkvari Pirvelis Mepis Teimurazisgan (Kind words of Teimurav I) by Teimurav I, and Tsmendebs Tsmindisa Ketevec Dedoflisa (St. Queen Ketevan’s Torment) by Dimitri Bagrationi.

Most books preserved at the TSU library cannot be found in any other Georgian libraries, making ita unique repository of rare nineteenth and twentieth century texts. Part of this unique collection are the twentieth century texts by famous Georgian authors including: Bashi-Achuki (Bashi-Achuk, a historical novel) by Akaki Tseretli published in 1900, Tsigni I (Book I) by Shio Aragvispireli, Sakartvelos Istoria (Georgian History) by Marie Brosset, Khalkhuri Zgaprebi (Folk Fairy-tales) by Sevasti Gachechiladze, Kartuli Enis Programa Tpilisis Kartuli Satavad-aznauro Gimnaziistvis (Georgian language textbook for the Tiflis School for Nobility), Natvristvali (Wishing Stone) by Leo Kiacheli, and Chveni Gvinis Kimiuri Shemadgenloba (The Chemical Composition of our Wine) by Petre Melikishvili. Although it is not possible to list all the books, Zurab Gaiparashvili, Director of the TSU Library, indicates there are several million books, many of which are very old and in need of special preservation, as well as to be kept in a temperature-controlled environment for the researchers of future generations.
“Conference on Generalized Analytic Functions and Their Applications;” Date: 12-14 September 2011
Supporter(s): Shota Rustaveli National Science Foundation; Participants: Poland, Russia, Armenia.

II Annual Meeting of the Geometrical Mechanical Union; Date: 15-17 September 2011 Organizer(s): Iv. Javakhishvili Tbilisi State University; V. Vekua Institute of Applied Mathematics; direction of Mechanics at the department of Mathematics (faculty of Exact and Natural Sciences); Tbilisi International Centre of Mathematics and Informatics; Georgian National Committee of Theoretical and Applied Mechanics; Participants: Germany, Turkey, Canada, Armenia.

International conference on “Environment and Global Heating” dedicated to 100th Anniversary of Academician Teopane Davitia; Date: 15-17 September 2011; Organizer(s): Vakhushi Bagrationi Institute of Geography (TSU); Georgian National Academy of Sciences; Alexandre Javakhishvili Geographical Society of Georgia; Issues: Climatology, physical geography and human geography; Attendees: President of International Geographical Union, Prof. Ronald Abler.

II International Conference Dedicated to 120th Anniversary of Nikoloz Muskhishvili; Date: September 2011; Organizer(s): Ministry of Education and Science of Georgia; Georgian National Academy of Sciences; Georgian Technical University and Georgian National academy of Sciences. Co-participant organization – Association of Professional Chemists of Georgia; Supporter(s): Shota Rustaveli National Science Foundation, Hotel “Didube Plaza” and “Prestige”, World scientific publishing, journal – Chemistry of Heterocyclic Compounds and digital printing center – “ESPO”. Participants: Azerbaijan, the United States, Belarus, Germany, Turkey, India, Iran, Italy, Latvia, Pakistan, Russia, Greece, Armenia, Georgia, Singapore, the Ukraine, Uzbekistan, Switzerland, and China.
International conference - “Greek Civilization and Dialogue between Cultures”
Date: 5-6 October 2011; Organizer(s): TSU Institute of Classical Philology, Byzantine and Modern Greek Studies; Democritus University of Thrace; Participant(s): Georgia, Greece, Germany.

International scientific conference - “English Literature of XX century: English Modernism and Postmodernism”; Date: 8-9 October 2011; Organizer(s): department of English Philology at TSU Institute of Western-European Philology; Participants: TSU, Batumi State University, Great Britain (Oxford).

International symposium - ''Family and Marriage Problems in three Monotheistic Religions of the World''; Date: 20-23 October 2011 Organizer(s): Ovidius University (Romania); Toulouse University (France); Institute of Philosophy at TSU faculty of Humanities. Participant(s): Great Britain, the United States, France, Italy, Germany, Spain, Portugal, Brazil, Bulgaria, Israel, Palestine, Jordan, Japan, Georgia.

International conference - "Physics in the Age of the Large Hadron Collider"
Date: 17-21 October 2011
Organizer(s): Iv. Javakhishvili Tbilisi State University
Supporter(s): Ministry of Education and Science of Georgia; Georgian National Academy of Sciences.
Participants: Representatives of TSU and CERN (European Organization for Nuclear Research).

International conference - "Linguistics, Literature, Didactics – Modern Approaches and Strategies";
Date: 28-29 October 2011;
Organizer(s): Faculty of Humanities at Iv. Javakhishvili Tbilisi State University; Department of Roman Philology; the Francophone University Agency (AUF).
Supporter(s): AUF; faculty of Humanities.
Participants: Representatives of 20 higher educational centers

International scientific-practical conference - "Priorities of Sustainable Development of Agriculture". Date: 28-29 October 2011
Organizer(s): Faculty of Agriculture at Iv. Javakhishvili Tbilisi State University; Department of Agro-ecology; Ministry of Agriculture of Georgia; Swiss Federal Institute of Technology Zurich; English Book in Georgia; Participants: Switzerland, England, Ukraine.
Organizer(s): Institute of Pedagogy at TSU faculty of Humanities
Participants: Georgia, England, Bulgaria, Czech Republic.
The Dissertations Defended at TSU Faculties in 2011

I. The Faculty of Social and Political Sciences

Abashidze Zviadi - Doctoral thesis: Ethical Minorities and the Issue of Civil Integration in Georgia. Zviad Abashidze was granted Doctor’s degree in political sciences;


Burdenidze Marine - Doctoral thesis: Classification of Research Methods and Specifics in Empirical Sociology. Marine Burdenidze was granted Doctor’s degree in sociology.

II. The Faculty of Economics and Business

Kankia Nargiza - Doctoral thesis: “Ethnical Minorities and the Issue of Civil Integration in Georgia. Zviad Abashidze was granted Doctor’s degree in political sciences;

III. The Faculty of Humanities

Theoretical Analysis of the Symbol and Iconic Face. Petelava Tea was granted Doctor’s degree in philology;

Linguistic and Extralinguistic Aspects of Narrative Text. Eleonora Sharia was granted Doctoral degree in philology;
Gambashidze Manana - Doctoral thesis: Semantic Structure of Post-nominal Attributive Adjective in Nominative Syntax. Manana Gambashidze was granted Doctoral degree in philosophy;

Akhvlediani Miranda - Doctoral thesis: Constitutional Guarantees of the right to Health Protection in Georgia. Miranda Akhvlediani was granted Doctoral degree in law;

IV. The Faculty of Law

IV. ფაკულტეტის სიართოთა სიართოთს საქართველოში

V. The Faculty of Medicine

V. მედიცინის ოფაკულტეტი პატივსაცემის ანგარიშმანს საქართველოში

V. იუჯი ჯინჯი ელემენტი სატესტობრივი ბიომეტრიის ფაფოთი;

VI. Faculty of Exact and Natural Sciences

VI. ფაქვიტეტის ტექნიკური პროგრამები გამოძიების ექსპერიმენტი;

 VII. იუჯი ჯინჯი ელემენტი სატესტობრივი ბიომეტრიის ფაფოთი;

VII. ფაქვიტეტის ტექნიკური პროგრამები გამოძიების ექსპერიმენტი;

VIII. ფაქვიტეტის ტექნიკური პროგრამები გამოძიების ექსპერიმენტი;

IX. ფაქვიტეტის ტექნიკური პროგრამები გამოძიების ექსპერიმენტი;

X. ფაქვიტეტის ტექნიკური პროგრამები გამოძიების ექსპერიმენტი;

XI. ფაქვიტეტის ტექნიკური პროგრამები გამოძიების ექსპერიმენტი;

XII. ფაქვიტეტის ტექნიკური პროგრამები გამოძიების ექსპერიმენტი;

XIII. ფაქვიტეტის ტექნიკური პროგრამები გამოძიების ექსპერიმენტი;

XIV. ფაქვიტეტის ტექნიკური პროგრამები გამოძიების ექსპერიმენტი;

XV. ფაქვიტეტის ტექნიკური პროგრამები გამოძიების ექსპერიმენტი;

XVI. ფაქვიტეტის ტექნიკური პროგრამები გამოძიების ექსპერიმენტი;

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XIX. ფაქვიტეტის ტექნიკური პროგრამები გამოძიების ექსპერიმენტი;

XX. ფაქვიტეტის ტექნიკური პროგრამები გამოძიების ექსპერიმენტი;

XXI. ფაქვიტეტის ტექნიკური პროგრამები გამოძიების ექსპერიმენტი;

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XXVI. ფაქვიტეტის ტექნიკური პროგრამები გამოძიების ექსპერიმენტი;

XXVII. ფაქვიტეტის ტექნიკური პროგრამები გამოძიების ექსპერიმენტი;

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XXIX. ფაქვიტეტის ტექნიკური პროგრამები გამოძიების ექსპერიმენტი;

XXX. ფაქვიტეტის ტექნიკური პროგრამები გამოძიების ექსპერიმენტი;

XXXI. ფაქვიტეტის ტექნიკური პროგრამები გამოძიების ექსპერიმენტი;

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XL. ფაქვიტეტის ტექნიკური პროგრამები გამოძიების ექსპერიმენტი;
“VERY SHORT INTRODUCTION”

The series of books published by the Oxford University – “Very Short Introduction” – covers number of interesting scientific and cultural aspects from Egyptian and Indian philosophy to conceptual arts and cosmology. Tbilisi State University Press works on publishing 12 books from this series.

“MACROECONOMICS – TEXTBOOK FOR STUDENTS”

The book Microeconomics by Olivier Blanchard is based on one core model which describes the equilibrium on three types of market: goods, financial and labor markets. According to the complexity of the research topics, some parts of the model are explained in detail while the rest of the parts are more simplified or not emphasized. However, the core model always stays the same. Thus, student is given a chance to study microeconomics as a whole and not as a collection of models.
The Georgian translation of the textbook Basic Issues of Criminal Justice: Crime and its Structure (Strafrecht Allgemeiner Teil: Die Straftat und ihr Aufbau) by Johannes Wessels and Werner Beulke is interesting literature for Georgian law students. Since textbooks are mainly intended for students trying ‘to escape from the labyrinths of science’, their main priority must be an emphasis on didactic aspects of teaching and easily mastered skills. The textbook’s scientific value is also noteworthy.

According to the translator of the book, Irakli Dvalidze, the textbook basic German criminal justice (38th edition) possesses those two qualities and is very popular with German as well as international students and professors. The textbook has been translated into many different languages including Portuguese, Spanish, Korean, and Russian. The relevance of Georgian justice to Romano-German law practices makes it vitally important for the development of Georgian science to become familiar with the scientific achievements of the countries that share the same law practice.

Translating the 38th edition of the textbook became possible thanks to the contribution of Jurist Zurab Arsenishvili who translated most of it with real enthusiasm. The contribution of Giorgi Tumanishvili (LL.M at Freie Universität Berlin and Doctor of Law) also deserves attention. Thanks to his direct involvement, Müller Publishing granted the rights for a Georgian translation and an agreement was signed between Müller Publishing and Tbilisi State University.

The textbook The Basics of Criminal Justice: Crime and its Structure will be very useful for Georgian students and professors of the Faculty of law. It will be particularly beneficial for those who have already undertaken studies in criminality and wish to further their knowledge in the field. The textbook is also interesting in terms of comparative legal studies.
The author of the book is Jemal Sharashenidze. According to the first sources and data from vast scientific literature, the book chronologically discusses the main issues of the wars in Eurasian and African continents from ancient times to the fifties of the last century. To some point, the book may have the purpose of a course book and may also be used as an additional material for the students of the history of war and military science. The book is thought to be interesting for wide range of public sectors.

"THE HISTORY OF LINGUISTICS IN EUROPE: FROM PLATO TO 1600"

The author – Vivien Law, Cambridge publishing. According to the author, the book discusses the history of the European linguistics from its beginning – V century BC to 1600. However, there is phenomenon of linguistics in other cultures as well such as India, Judaea-Arabic world, China, etc. Furthermore, linguistics is as developed and complex in America as in Europe and its cultural dimensions. This book puts main emphasis on Europe only and is a linguistics textbook.
Bronze monument, Atskuri, IV century BC, from the exhibits of TSU Museum