

# SUMMARY & REFERENCES

## SOCIETY

### HISTORY AND THE PRESENT

M.F. Polynov,

PhD in History, professor, Saint-Petersburg State University, St. Petersburg;  
e-mail: mfistoria@mail.ru

#### RELATIONS WITH THE UNITED STATES IN THE FOREIGN POLICY OF MIKHAIL GORBACHEV DURING THE PERESTROIKA. 1985-1991

The article reveals why Gorbachev gave priority to the relationship with the United States in the years of Perestroika. Soviet leader paid a great attention to the issue of nuclear disarmament in the relations of the two superpowers. The contract on liquidation of rockets of average and small range and on the reduction of strategic nuclear missiles was managed to sign in this field. U.S.-Soviet relations in the years of perestroika improved greatly, which contributed to the overcoming of the cold war. It is noted that these changes largely occurred due to serious concessions from the Soviet Union.

**Key words:** USSR, USA, Mikhail Gorbachev, Ronald Reagan, George Bush, nuclear disarmament, negotiations, contract, foreign Minister, Secretary of state, commercial relations, Washington, Moscow.

#### References:

- [1] Akhromeev S.F., Kornienko G.M. The eyes of the Marshal and diplomat. A critical look at foreign policy of the USSR before and after 1985 [Glazami marshala i diplomata: kriticheskiy vzglyad na vnesnyuyu i vnutrennyuyu politiku SSSR do i posle 1985 goda]. Moscow, Foreign affairs [Mezhdunarodnye otnosheniya], 1992, 318 p.
- [2] Barsenkov A.S. "New thinking" in foreign policy of the Soviet Union (1985–1991) [«Novoe myshlenie» vo vneshey politike SSSR (1985–1991)] // Bulletin of Moscow University. Ser.25. International relations and world politics [Vestnik Moskovskogo un-ta. Ser. 25. Mezhdunarodnye otnosheniya i mirovaya politika]. 2012, № 1, pp. 41–73; № 4, pp. 4–38.
- [3] Barsenkov A.S. Policy of "new thinking" and the end of the cold war (1985–1990) [Politika «novogo myshleniya» i okonchanie kholodnoy voyny (1985–1990)] // Russian history [Rossiyskaya istoriya]. 2015, № 6, pp. 135–157.
- [4] Conversation between Gorbachev and George Bush in London, 17 July 1991 [Beseda Gorbacheva s Dzh. Bushem v Londone, 17 iyulya 1991 goda] // In the Politburo of the Central Committee CPSU...On records of Anatoly Chernyaev, Vadim Medvedev, Georgy Shakhnazarov (1985–1991) [V Politbyuro TsK KPSS... Po zapisyam besedy Anatoliya Chernyaeva, Vadima Medvedeva, Georgiya Shakhnazarova (1985–1991)]. Moscow, Gorbachev Fund [Gorbachev-fond], pp. 718–722.
- [5] Beschloss M., Talbott S. At the Highest Levels. The Inside Story of the End of the Cold War [Na samom vysokom urovne. Zakulisnaya istoriya okonchaniya «kholodnoy voyny»]. Moscow, "In total for you" [Vse dlya vas], 1994, 1994, 40 p.
- [6] Brutents K. It never came true: engaged notes about perestroika [Nesbyvshesya. Neravnodushnye zametki o perestroyke]. Moscow, Foreign Affairs [Mezhdunarodnye otnosheniya], 2005, 656 p.
- [7] Bush G., Scowcroft B.A World Transformed [Mir stal drugim]. Moscow, Foreign Affairs [Mezhdunarodnye otnosheniya], 2004, 504 p.
- [8] In the Politburo of the Central Committee CPSU...On records of Anatoly Chernyaev, Vadim Medvedev, Georgy Shakhnazarov (1985–1991) [V Politbyuro TSK KPSS... Po zapisyam Anatoliya Chernyaeva, Vadima Medvedeva, Georgiya Shakhnazarova (1985–1991)]. Moscow, Gorbachev Fund [Gorbachev-fond], 2008, 800 p.
- [9] Vorotnikov V.I. And there was it so...: From the diary pf the member of the Politburo of the Central Committee of CPSU [A bylo eto tak... Iz dnevnika chlena Politbyuro TsK KPSS]. Moscow, Council of veterans pf book publishing of SIMAR [Sovet veteranov knigoizdaniya SIMAR], 1995, 473 p.
- [10] Gaidar E.T. Fall of the Empire. Lessons for modern Russia [Gibel' imperii. Uroki dlya sovremennoy Rossii]. Moscow, ROSSPEN, 2006, 448 p.
- [11] Gorbachev M.S. Life and Reforms. Book 2. [Zhizn' i reformy. Kn. 2.]. Moscow, News [Novosti]. 1995, 656 p.
- [12] Gorbachev M.S. Collected Works. Vol. 4 [Sobranie sochinenii. Tom 4]. Moscow, All the World [Ves' Mir], 2008, 618 p.
- [13] Grinevsky O.A. The fracture. From Brezhnev to Gorbachev [Perelom. Ot Brezhneva k Gorbachevu]. Moscow, Olma-Press. Education [Olma-Press. Obrazovanie], 2004, 624 p.
- [14] Dobrynin A.F. Strictly confidential. Ambassador in Washington at six U.S. presidents (1962–1986) [Suguboo doveritel'no. Posol v Vashingtone pri shesti prezidentakh SSHA (1962–1986 gg.)]. Moscow, Author [Avtor], 1997, 688 p.
- [15] Treaty Between The United States Of America And The Union Of Soviet Socialist Republics On The Elimination Of Their Intermediate-Range And Shorter-Range Missiles [Dogovor mezhdu Soyuzom Sovetskikh Sotsialisticheskikh Respublik i Soedinennymi Shtatami Ameriki o likvidatsii ikh raket srednei i men'shei dal'nostei] // Visit of the General Secretary of the Central Committee of the Communist party in the United

- States of America. Documents and materials. [Vizit General'nogo sekretarya TsK KPSS v Soedinennykh Shtatakh Ameriki. Dokumenty i materialy]. Moscow. Politizdat. 1987, 175 p.
- [16] Dubinin, Y.V. Time of Change. The Notes of the Ambassador to the United States [Vremya peremen. Zapiska posla v SShA]. Moscow, Aviarius-XXI. 2003, 463 p.
- [17] Statement of the Secretary-General of the CPSU Central Committee M. S. Gorbachev on the total elimination of nuclear weapons on earth within 15 years – by the year 2000 [Zayavlenie General'nogo sekretarya TsK KPSS M.S. Gorbacheva o polnoi likvidatsii yadernogo oruzhiya na zemle za 15 let – k 2000 godu] // Pravda, 1986, January 16.
- [18] Soviet Government Statement [Zayavlenie Sovetskogo pravitel'stva] // Pravda. 1986, April 16.
- [19] Zubok V.M. Failed Empire. The Soviet Union in the cold war from Stalin to Gorbachev [Neudavshaysaya imperiya. Sovetskiy Soyuz v kholodnoi voine ot Stalina do Gorbacheva]. Moscow, ROSSPEN. 2011, 671 p.
- [20] From the archive of the Gorbachev. Conversation of M. S. Gorbachev with R. Reagan in Reykjavik on 11-12 October 1986. Second conversation (1986, October 11) [Iz arkhiva Gorbacheva (Besedy M.S. Gorbacheva s R. Reiganom v Reik'yavike 11 – 12 oktyabrya 1986 g.). Vtoraya beseda (dnem 11 oktyabrya 1986 g.)] // World economy and international relations [Mirovaya ekonomika i mezhdunarodnye otnosheniya]. 1993, № 5, pp. 81–90.
- [21] From conversation with George Shultz. Moscow, April 14, 1987 [Iz besedy s Dzhordzhem Shul'tsem. Moskva, 14 aprelya 1987 goda] // In response to the challenge of the time. Foreign policy perestroika: the documentary evidence. Records of conversations Gorbachev with foreign leaders and other materials. Moscow, Whole World [Ves' Mir], 2010, pp. 182–186.
- [22] From conversation with Richard Nixon, Moscow, July 18, 1986 [Iz besedy s Richardom Niksonom Moskva, 18 iyulya 1986 goda] // Answering the call of time. Foreign policy of perestroika: documented evidence. According to the records of conversations Gorbachev with foreign leaders and other materials [Otvechaya na vyzov vremeni. Vneshnyaya politika perestroyki: dokumental'nye svидетельства. Po zapisyam besed Gorbacheva s zarubezhnymi deyatelyami i drugim materialam]. Moscow, Whole World [Ves' Mir], 2010, pp. 165–166.
- [23] From conversation with Ronald Reagan. Moscow, 31 May 1988 [Iz besedy s Ronal'dom Reiganom Moskva, 31 maya 1988 goda] // Answering the call of time. Foreign policy of perestroika: documented evidence. According to the records of conversations Gorbachev with foreign leaders and other materials [Otvechaya na vyzov vremeni. Vneshnyaya politika perestroyki: dokumental'nye svидетельства. Po zapisyam besed Gorbacheva s zarubezhnymi deyatelyami i drugim materialam]. Moscow, Whole World [Ves' Mir], 2010, pp. 212–215.
- [24] From the conversation with Secretary of State James Baker, Moscow, May 11, 1989 [Iz besedy s gossekretem Dzheimsom Beikerom Moskva 11 maya 1989 goda] // Answering the call of time. Foreign policy of perestroika: documented evidence. According to the records of conversations Gorbachev with foreign leaders and other materials [Otvechaya na vyzov vremeni. Vneshnyaya politika perestroyki: dokumental'nye svидетельства. Po zapisyam besed Gorbacheva s zarubezhnymi deyatelyami i drugim materialam]. Moscow, Whole World [Ves' Mir], 2010, pp. 224–231.
- [25] From conversation with George Bush (one on one). Malta, 2 December 1989 [Iz besedy s Dzhordzhem Bushem (odin na odin). Mal'ta. 2 dekabrya 1989 goda] // Answering the call of time. Foreign policy of perestroika: documented evidence. According to the records of conversations Gorbachev with foreign leaders and other materials [Otvechaya na vyzov vremeni. Vneshnyaya politika perestroyki: dokumental'nye svидетельства. Po zapisyam besed Gorbacheva s zarubezhnymi deyatelyami i drugim materialam]. Moscow, Whole World [Ves' Mir], 2010, pp. 234–236.
- [26] From conversation with George Bush, June 1, 1990 [Iz besedy s Dzhordzhem Bushem 1 iyunya 1990 goda] // Answering the call of time. Foreign policy of perestroika: documented evidence. According to the records of conversations Gorbachev with foreign leaders and other materials [Otvechaya na vyzov vremeni. Vneshnyaya politika perestroyki: dokumental'nye svидетельства. Po zapisyam besed Gorbacheva s zarubezhnymi deyatelyami i drugim materialam]. Moscow, Whole World [Ves' Mir], 2010, pp. 264–265.
- [27] From conversation with George Bush in Helsinki, September 9, 1990 [Iz besedy s Dzhordzhem Bushem Hel'sinki, 9 sentyabrya 1990 goda] // Answering the call of time. Foreign policy of perestroika: documented evidence. According to the records of conversations Gorbachev with foreign leaders and other materials [Otvechaya na vyzov vremeni. Vneshnyaya politika perestroyki: dokumental'nye svидетельства. Po zapisyam besed Gorbacheva s zarubezhnymi deyatelyami i drugim materialam]. Moscow, Whole World [Ves' Mir], 2010, pp. 267–269.
- [28] From conversation with George Bush. Moscow, 30 July 1991 [Iz besedy s Dzhordzhem Bushem. Moskva, 30 iyulya 1991 goda] // Answering the call of time. Foreign policy of perestroika: documented evidence. According to the records of conversations Gorbachev with foreign leaders and other materials [Otvechaya na vyzov vremeni. Vneshnyaya politika perestroyki: dokumental'nye svидетельства. Po zapisyam besed Gorbacheva s zarubezhnymi deyatelyami i drugim materialam]. Moscow, Whole World [Ves' Mir], 2010, pp. 281–283.
- [29] From negotiations with George Bush (in extended format). Malta, 2 December 1989 [Iz peregovorov Dzhordzhem Bushem (v rasshirennom sostave). Mal'ta, 2 dekabrya 1989 goda] // Answering the call of time. Foreign policy of perestroika: documented evidence. According to the records of conversations Gorbachev with foreign leaders and other materials [Otvechaya na vyzov vremeni. Vneshnyaya politika perestroyki: dokumental'nye svидетельства. Po zapisyam besed Gorbacheva s zarubezhnymi deyatelyami i drugim materialam]. Moscow, Whole World [Ves' Mir], 2010, pp. 236–242.
- [30] From negotiations with George Bush (one on one). Malta, 3 December 1989 [Iz peregovorov s Dzhordzhem Bushem (odin na odin). Mal'ta, 3 dekabrya 1989 goda] // Answering the call of time. Foreign policy of perestroika: documented evidence. According to the records of conversations Gorbachev with foreign leaders and other materials [Otvechaya na vyzov vremeni. Vneshnyaya politika perestroyki: dokumental'nye svидетельства. Po zapisyam besed Gorbacheva s zarubezhnymi deyatelyami i drugim materialam]. Moscow, Whole World [Ves' Mir], 2010, pp. 248–249.

- [31] From the second conversation with George Bush. Washington, the White house, May 31, 1990 [Iz vtoroj besedy M.S. Gorbacheva s Dzh.Bushem. Vashington, Belyj dom, 31 maja 1990 goda] // Mikhail Gorbachev and the German question. Collection of documents [Mikhail Gorbachev i germanskij vopros]. 1986-1991. Moscow, Publishing House Whole World [Ves' Mir]. 2006, pp. 466-476.
- [32] Il'in N.N. The shameful deal (Soviet-American Agreement on the line of Maritime delimitation in the Bering sea) [Pozornaya sdelka (Sovetsko-amerikanskoe Soglashenie o linii razgranicheniya morskikh prostranstv v Beringovom more)] // Military-historical magazine [Voenno – istoricheskiy zhurnal]. 1992, № 10, pp. 86-91.
- [33] History of foreign policy of the USSR and Russia in 1985-1999: problems, solutions, results [Istoriya vnesheyny politiki SSSR i Rossii v 1985-1999 gg.: problemy, resheniya, rezul'taty] / ed. by A.V. Torkunov. Moscow, Fund of contemporary history [Fond sovremennoy istorii]. 2010, 368 p.
- [34] History of international relations. [Istoriya mezhdunarodnykh otnosheniy] / Under a general edition of A.V.Torkunov, M.M.Narinsky. Vol. 3. Moscow, Aspect Press. 2012, 552 p.
- [35] Kissinger H. Diplomacy [Diplomiya]. Moscow, Ladamir. 1997, 847 p.
- [36] Kornienko G.M. Cold war. Certificate of its participant [Kholodnaya voyna. Svidetel'stvo ee uchastnika]. Moscow, Olma-Press, 2001, 552 p.
- [37] The personal message from the President of the USSR M. S. Gorbachev to heads of state – participants of a meeting “the seven” in London [Lichnoe poslanie Prezidenta SSSR Gorbacheva M.S. glavam gosudarstv – uchastnikam vstrechi «semerki» v Londone] // Archive of the Gorbachev Foundation [Arkhiv Gorbachev-Fonda]. F. 2. Op. 1. № 8732.
- [38] Materials of the 27th Congress of the Communist party of the Soviet Union [Materialy KhKhVII s"ezda Kommunisticheskoy parti Sovetskogo Soyuza]. 1986, p. 352.
- [39] The Memorandum of understanding on the establishment of baseline data in connection with the Treaty between the Union of Soviet Socialist Republics and the United States of America on the elimination of their intermediate-range and shorter-range [Memorandum o dogovorennosti ob ustanovlenii iskhodnykh dannykh v svyazi s dogovorom mezdu Soyuzom Sovetskikh Sotsialisticheskikh Respublik i Soedinennymi Shtatami Ameriki o likvidatsii ikh raket sredney i men'shey dal'nosti] // The Visit of the General Secretary of the Central Committee of the Communist party in the United States of America. Documents and materials [Vizit General'nogo sekretarya TsK KPSS v Soedinennye Shtaty Ameriki. Dokumenty i materialy]. Moscow, Politizdat, 1987, 175 p.
- [40] Jack Matlock Jr. Superpower Illusions. How myths and false ideologies led Amrica astray – and how to return to reality [Sverkhderzhavnye illyuzii. Kak mify i lozhnye idei zaveli Ameriku ne v tu storonu – i kak vernut'sya v real'nost'] / Translation from English. Moscow, Foreign relations [Mezhdunarodnye otnosheniya], 2011, 384 p.
- [41] Jack Matlock Jr. Autopsy on an Empire: The American Ambassador's Account of the Collapse of the Soviet Union [Smer' imperii. Vzglyad amerikanskogo poslana raspada Sovetskogo Soyuza] / Translation from English. Moscow, Rudomino, 2003, 579 p.
- [42] Essays on the history of the Ministry of foreign Affairs of Russia [Ocherki istorii ministerstva inostrannyykh del Rossii]. Under a general edition of A.V. Torkunov, M.M.Narinsky. Op. 2. Moscow, 2002, p.
- [43] Pechetnov V.O., Manykin A.S. History of U.S. foreign policy [Istoriya vnesheyny politiki SShA]. Moscow, Foreign relations [Mezhdunarodnye otnosheniya], 2012, 672 p.
- [44] Polynov M.F. Foreign policy of Gorbachev. 1985–1991 [Vneshnyaya politika Gorbacheva. 1985–1991]. Saint Petersburg, Aletheia, 2014, 504 p.
- [45] Polynov M.F. Secret meeting with big consequences. Negotiations between Mikhail Gorbachev and George Bush in Malta, December 2-3 1989 // Society. Environment. Development [Obshchestvo. Sreda. Razvitie.]. 2011, № 3, pp. 40-44.
- [46] Pravda. November 28, 1982.
- [47] Pravda. November 23, 1988.
- [48] Pravda. October 6, 1991.
- [49] Reagan R. An American Life / Translation from English. [Zhizn' po-amerikanski]. Moscow, News [Novosti], 1992, 749 p.
- [50] Reagan R. Speaking My Mind: Selected by Ronald Reagan [Otkrovenno gorya. Izbrannye rechi] / Translation from English. Moscow, News [Novosti]. 1990, 398 p.
- [51] Speech of the General Secretary of the CPSU Mikhail Gorbachev at the meeting with parliamentarians in France [Rech' General'nogo sekretarya TsK KPSS M.S. Gorbacheva na vstreche s parlamentariyami Frantsii] // Foreign policy of the Soviet Union and international relations. 1985. Collection of documents [Vneshnyaya politika Sovetskogo Soyuza i mezhdunarodnye otnosheniya. 1985 god. Sb. dokumentov]. Moscow, Foreign relations [Mezhdunarodnye otnosheniya]. 1986, pp. 199–205.
- [52] Joint Soviet-American Statement [Sovmestnoe sovetsko-amerikanskoe zayavlenie] // Pravda. 1985, November, 22.
- [53] «Thatcher had some kind of personal feeling towards Gorbachev». Interview with L.M. Zamyatin [«U Tetcher bylo opredelenno zhenskoe chuvstvo k Gorbachevu». Interv'yu L.M. Zamyatina] // Kommersant-Vlast. 2005, №16, pp. 48–49.
- [54] Urnov A.Y. Foreign policy of the USSR during the «cold war» and «new thinking» [Vneshnyaya politika SSSR v gody «kholodnoy voyny» i «novogo myshleniya»]. Moscow: RFK-Imidzh, 2014, 683 p.
- [55] Chernyaev A.S. Six Years with Gorbachov [Shest' let s Gorbachevym. Po dnevnikovym zapisyam]. Moscow, Publishing group Progress – “Culture” [Izdatel'skaya gruppa «Progress», «Kul'tura»]. 1993, 528 p.
- [56] Chernyaev A.S. Joint outcome. Diary of two eras. 1972–1991 [Sovmestnyy iskhod. Dnevnik dvukh epoch. 1972 – 1991 gody]. Moscow, ROSSPEN. 2010, 1047 p.
- [57] Schweitzer P. Victory. The role of secret strategy of administration of the USA in disintegration of the Soviet Union and disintegration of socialist camp [Pobeda. Rol' taynoy strategii administratsii SShA v raspade Sovetskogo Soyuza i raspade sotsialisticheskogo lagerya]. Minsk, Avest. 1995, 392 p.

- [58] Shevardnadze E.A. 12 times I met Reagan one on one [Ya 12 raz vstrechalsya s Reyganom odin na odin]. International life [Mezhdunarodnaya zhizn']. 2005, № 12, pp. 143–148.
- [59] Baker J. The Politiks of Diplomatiky. Revolution Warand Peace. 1989–1992. N.Y., 1995, 687 p.
- [60] La Faber W. America, Russia and the Cold War. 1945–1996. N.Y., 1997, 416 p.
- [61] Thatcher M. The Downing Street Years. London, HarperCollins 1993, 832 p.
- [62] Schulz G. Turmoil and Triumph: My Years as Secretary of State. New York, Charles Scribner's Sons, 1993, 891 p.

**V.S. Brachev**

PhD, professor, Saint Petersburg State University, Saint Petersburg;  
e-mail: V.Brachev@yandex.ru

### SOVIET HISTORIAN ISAAC SOLOMONOVICH FENDEL (1893–1936)

The first biographical sketch in the historiography of the repressed in 1936, the Soviet historian Isaac Solomonovich Fendel. The basic stages of the life and scientific work of a scientist. Particular attention is paid to the circumstances of the arrest I.S. Fendelya, the nature of the charges against him, his chosen line of conduct in its confrontation with the investigators and the tragic death of a scientist. The work is based on the materials of the St. Petersburg archives, including archive of the FSB.

**Key words:** Isaac Solomonovich Fendel, Institute of Red Professors, the Military Political Academy named Tolmachev, Leningrad branch of the Communist Academy, political repression in the Soviet Union, the history of the First World War, the history of European social democracy.

#### References:

- [1] Archive of FSB of Russia in St. Petersburg and Leningrad region. Case Wn-22961 in 10 volumes. V. 1. (In charge Fendel Isaac Solomonovicha and other)
- [2] Volgin V.P. Sen Simon and sensimonizm. Moscow, 1925.
- [3] Essays of the Marxist-Leninist doctrine about the war [Ocherki marksistsko-leninskogo uchenija o vojne] / Collection of articles. Ed. by K. Bocharova, M. Godesa, I. Slutsky I. Fendelya. Leningrad, Lenpartizdat, 1933.
- [4] The revolutionary movement in the capitalist countries during and after World War II. The book for reading [Revolucionnoe dvizhenie v kapitalisticheskikh stranah vo vremja i posle Mirovoj vojny. Kniga dlja chtenija]. T.1. Imperialistic war of 1914–1918. Ed. by G. Zaydelya, L. Rayskogo, I. Fendelya. Leningrad, Lenpartizdat, 1933.
- [5] St. Petersburg branch of the Archive of RAN. F. 225. Op. 4. № 87. The I.S. Fendel's scientific work.
- [6] St. Petersburg branch of the Archive of RAN. F. 225. Op. 4a, № 137.
- [7] Fendel I.S. Imperialistic war of 1914–1918 [Imperialisticheskaja vojna 1914–1918 g.g.]. Leningrad–Moscow, Sotzegiz, 1934.
- [8] Fendel I. Institute of commissioners at armies of Convention. Report [Institut komissarov pri armijah Konventa. Doklad] // Communistic academy. Section on studying of problems of war. [Kommunisticheskaja akademija. Sekcija po izucheniju problem vojny]. Notes [Zapiski]. V. 2. Moscow, Publishing house of Communistic academy, 1931.
- [9] Fendel I. Lenin and imperialistic wars // Problems of Marxism. Two-month philosophical and socioeconomic magazine. Leningrad, Lenpartizdat, 1934. № 1.
- [10] Fendel I.S. Personal leaf on registration of personnel, January 4, 1934 [Lichnyj listok po uchetu kadrov, 4 janvarja 1934 goda] // ZGALI SPb., F. 328 (LGILI), op. 2, № 1708.
- [11] Fendel I.S. The political image of the prof. Svechin [– Politicheskoe lico prof. Svechina] // Against reactionary theories on the military and scientific front [Protiv reakcionnyh teorij na voenno-nauchnom fronte]. Moscow, State military publishing house, 1931.
- [12] Fendel I.S. Problem of wars and militarism on the international congresses of II Internatsionala. 1889–1914 [Problema vojn i militarizma na mezhdunarodnyh kongressah II Internacionala. 1889–1914 g.g.]. Leningrad, RKKA military-political academy of Tolmachev [Voenno-politicheskaja akademija RKKA im. Tolmacheva], 1933.
- [13] Fendel I. The early prophet of organized capitalism [– Rannij prorok organizovannogo kapitalizma] // Under a Marxism banner. Social and philosophical and socioeconomic magazine [Pod znamenem marksizma. Social'no-filosofskij i obshhestvenno-jekonomiceskij zhurnal]. 1925, № 5–6.
- [14] Fendel I.S. Sen Simon. Popular essays [Sen-Simon. Populjarnyj ocherk]. Leningrad, Surf, 1925.

**I.V. Pykhalov**

historian, publicist, Saint-Petersburg;  
e-mail: pyhalov@sonix.ru

### WHETHER THERE WAS MANNERHEIM «THE SAVIOR OF LENINGRAD»?

Circumstances of the entry of Finland in war against the USSR on Hitler's party in June, 1941 are considered. It is shown that actions of the Finnish leaders were caused by the preliminary arrangements with the German command concluded in 1940–1941. The myth that the Finnish army during fighting voluntarily stopped on the aged line of frontier between the USSR and Finland is disproved.

**Key words:** Siege of Leningrad (Leningrad Blockade), Great Patriotic War, Leningrad, Mannerheim, falsification of history, Finland.

#### References:

- [1] Baryshnikov V.N. The entry of Finland in World War II. 1940–1941. [Vstuplenie Finljandii vo Vtoruju mirovou vojnu. 1940–1941 gg.]. St. Petersburg, Publishing house of St. Petersburg State University, 2003, 324 p.

- [2] Baryshnikov N.I. Siege of Leningrad and Finland. 1941–1945 [Blokada Leningrada i Finljanđija. 1941–1945]. St.Petersburg–Helsinki, Johan Beckman Institute, 2002, 300 p.
- [3] The Great Soviet Encyclopedia. 3rd ed. V. 22. Moscow, 1975, 627 p.
- [4] Vojonmaa V. Diplomatic mail [Diplomaticeskaja pochta] / Tr. from fin. and comment. S.V. Zajchikova, ed. V.G. Fjodorova. Moscow, Progress, 1984, 284 p.
- [5] Halder F. Military diary. V. 2 / Tr. From germ. I. Glagoleva and L. Kiseleva; ed. L. Proactor. Moscow, Voenizdat, 1969, 628 p.
- [6] The diplomatic dictionary in 3 vol. [Diplomaticeskiy slovar' v 3 tomah]. V. II. Moscow, 1985, 502 p.
- [7] History of World War II 1939–1945. In 12 v. V. 9. Release of the territory of the USSR and European countries. War on the Pacific Ocean and in Asia [Istoriya vtoroj mirovoj vojny 1939–1945. V 12-ti t. – T.9. Osvobozhdenie territorii SSSR i Evropejskikh stran. Vojna na Tihom okeane i v Aziji]. Moscow, Voenizdat, 1978, 575 p.
- [8] Meltyukhov M. I. The missed Stalin's chance. The Soviet Union in fight for Europe: 1939–1941. (Documents, the facts, judgments) [Upushhennyj shans Stalina. Sovetskij Sojuz v bor'be za Evropu: 1939–1941 gg. (Dokumenty, fakty, suzhdennija)]. The 2nd ed. Moscow, Veche, 2002, 541 p.
- [9] The state security agencies of the USSR in the Great Patriotic War. V. 2. Beginning. Book 1. June 22 – August 31, 1941 [Organy gosudarstvennoj bezopasnosti SSSR v Velikoj Otechestvennoj vojne. T. 2. Nachalo. Kniga 1. 22 iyunja – 31 avgusta 1941 goda]. Moscow, Rus', 2000, 717 p.
- [10] Paasikivi J.-K. Diary. War–continuation. March 11, 1941 – June 27, 1944 [Dnevnik. Vojna-prodolzhenie. 11 marta 1941 – 27 iunja 1944] / Tr. from fin. A.I. Rupasov. St. Petersburg, European House, 2004, 423 p.
- [11] Rasila V. History of the Finland [Istoriya Finljandii] / Tr. from fin. L.V. Suni. Petrozavodsk, Publishing house of Petrozavodsk state university, 1996, 294 p.
- [12] Seppälä H. Finland as the invader in 1941–1944 [Finljandija kak okkupant v 1941–1944 godah] // The North [Sever]. 1995, № 4–5.
- [13] Seppälä H. Finland as the invader in 1941–1944 [Finljandija kak okkupant v 1941–1944 godah] // The North [Sever]. 1995, № 6.
- [14] Soviet military encyclopedia in 8 v. [Sovetskaja voennaja jenciklopedija v 8 t.] V. 4. Moscow, Voenizdat, 1977, 655 p.
- [15] Central Archive of the Ministry of Defence [Central'nyj arhiv Ministerstva oborony (CAMO)]. V. 33. F. 682524. Item 72.
- [16] Central Archive of the Ministry of Defence [Central'nyj arhiv Ministerstva oborony (CAMO)]. V. 33. F. 682524. Item 73.
- [17] Shirokorad A.B. Northern wars of Russia [Severnye vojny Rossii]. Moscow, AST; Minsk, Harvest, 2001, 848 p.

**E.G. Kharitonova**

PhD in History, an Associate professor, The State Professional and pedagogical university, Nizhniy Tagil; e-mail: putilovalena2011@mail.ru

### THE INFORMATIVE RESOURCES OF THE SOCIAL ORGANIZATION: THE HISTORY, STRUCTURE OF THE FUNDS, THE DIRECTIONS OF THE ACTIVITY OF THE ARCHIVE AND LIBRARY OF THE INTERNATIONAL “MEMORIAL” MOVEMENT (THE END 1980-S – 2000-S YEARS)

Using the materials of interview and archive documents, the author reconstructs the history of the beginning and developing the documental keeping of the International “Memorial” movement – its archive and library. Kharitonova E.G. shows, that the informative resources of the social organizations, almost don't differ from the state same: as the state archives and libraries, the archive and library of “Memorial” contents the unique massive of the information about Russian history; there are different directions of using the documental memorials, their professional keeping in the special premises; and do the systematic work to composing and leading of the science and handbooking apparatus.

**Key words:** the archive, the library, the informative resources, the historical memory, International “Memorial” movement.

#### References:

- [1] The archive of the International society «Memorial» [Arhiv Mejdunarodnogo obschestva «Memorial»]. URL: <http://www.memo.ru/s/63.html> (14.01.2014)
- [2] Interview E.G. Putilova with A.G. Kozlova, head of the archive of the International Society «Memorial» [Interviewu E.G. Putilovoj s A.G. Kozlovoj\_ zaveduyuschei arhivom Mejdunarodnogo Obschestva «Memorial»] / recorded December 2, 2013, the International «Memorial» Society, Moscow // E.G. Kharitonova's archive.
- [3] Interview E.G. Putilova with B.I. by Belenkinym, head of the library and a Board member of the International society «Memorial» [Interviewu E.G. Putilovoj s B.I. Belenkinim\_ zaveduyuschim bibliotekoi i chlenom Pravleniya Mejdunarodnogo obschestva «Memorial»] / Recorded December 2, 2013, the International «Memorial» Society, Moscow // E.G. Kharitonova's archive.
- [4] Bibliography of the publications of the «Memorial» society [Bibliograficheskii ukazatel izdanii obschestva «Memorial»] (1988 – 1995). Moscow, Memorial, 1995, 64 p.
- [5] Library of the International Memorial [Biblioteka Mezdunarodnogo Memoriala]. URL: <http://www.memo.ru/s/64.html> (20.12.2013)
- [6] As it was (from the memoirs of the head of the library) [Kak eto bilo \_iz vospominanii zaveduyuschego bibliotekoi] // 30 October. 2000, № 8.
- [7] Brief information about the structures and programmes of nipts «Memorial» [Kratkaya informaciya o strukturah i programmah NIIPC «Memorial»] // Archive of the International Society «Memorial» [Arhiv Mejdunarodnogo Obschestva «Memorial»]. Moscow . P. 1. Folder № 59.

- [8] Putilova E.G., «Memorial: the establishment» [«Memorial»: stanovlenie]. Moscow, Publishing House «Pero», 2013. 183 p.
- [9] Charter of the all-Union voluntary historical-educational society «Memorial» (approved by the Constituent conference of VDIO «Memorial» 28 Jan 1989) [Ustav Vsesoyuznogo dobrovolnogo istoriko\_prosvetitelskogo obshchestva «Memorial» \_utverzden Uchreditelnoi konferenciei VDIPo «Memorial» 28 yanvarya 1989 g.] // Putilova E.G., «Memorial: the establishment» [«Memorial»: stanovlenie]. Moscow, Publishing House «Pero», 2013, 183 p.
- [10] The library of «Memorial» [Fondy biblioteki «Memoriala】. URL: <http://www.memo.ru/d/228.html> (20.12.2013)

## DISCOURSE STRATEGIES

**A.I. Subetto,**

PhD, professor, Honored builder of the Russian Federation,  
president, Noospheric Public Academy, St. Petersburg;  
e-mail: subal1937@yandex.ru

### THE REVOLUTION AS A SUBJECT OF SCIENTIFIC AND PHILOSOPHICAL REFLECTION

Reports at the «Revolutions as Subject of a Scientific and Philosophical Reflection» conference (April 23–24, 2016, Nizhny Novgorod) are generalized. The theory which describes ratios of the concepts «revolution» and «evolution» is confirmed. Fundamentals of philosophy of revolution are formulated. The law of frequency of revolutions which is right for any progressive evolution is offered. It is proved that the noosphere socialist revolution is the only imperative of survival of mankind.

**Key words:** dialectics, imperialism, capitalism, capitalocracy, quality, colonization, noosphere, education, society, progress, development, revolution, market, socialism, evolution, ecology, exploitation.

#### Rerences:

- [1] Zinoviev A.A. I dream of the new man [Ya mechtayu o novom cheloveke]. Moscow, Algorithm, 2007, 240 p.
- [2] Kaznacheev V.P., Spirin E.A. Cosmoplanetary phenomenon of the human: problems of a comprehensive study [Kosmoplanetarnyy fenomen cheloveka: problemy kompleksnogo izucheniya]. Novosibirsk, Science [Nauka], 1991, 304 p.
- [3] Kosolapov R. I. the Truth from Russia [Kosolapov R.I. Istina iz Rossii]. Tver, Scientific-Izdat. the company «Northern Crown» [Nauchno-izdat. kompaniya «Severnaya Korona»], 2004, 666 p.
- [4] Lenin V.I., Works, vol. 17 [Sochineniya, t. 17].
- [5] Lenin theory of imperialism and modern globalization. In 2 books. The book I [Leninskaya teoriya imperializma i sovremennaya globalizatsiya. V 2-kh knigakh. Kniga I] / Under A.I. Subetto edition. Saint Petersburg, Asterion, 2003, 260 p.
- [6] Panfilova T.V. In support of ecological socialism [V podderzhku ekologicheskogo sotsializma] // Perspectives of the world socialist movement in the 21st century: materials of the international scientific conference (N. Novgorod, on April 26–27, 2014) [Perspektivnye mirovogo sotsialisticheskogo dvizheniya v XXI veke: materialy mezhdunarodnoy nauchnoy konferentsii (N. Novgorod, 26–27 aprelya 2014 g.)]. N. Novgorod, Publishing house of the Nizhny Novgorod state medical academy [Izd-vo Nizhegorodskoy gosudarstvennoy meditsinskoy akademii], 2014, 264 p.
- [7] Revolutions as subject of a scientific and philosophical reflection: materials of the All-Russian scientific conference with the international participation (N. Novgorod, on April 23–24, 2016). In 2 parts. Part I [Revolyutsii kak predmet nauchnoy i filosofskoy refleksii: materialy Vserossiyskoy nauchnoy konferentsii s mezhdunarodnym uchastiem (N. Novgorod, 23–24 aprelya 2016 g.). V 2-kh chastyakh. Chast' I]. N. Novgorod, Publishing house of the Nizhny Novgorod state medical academy [Izd-vo Nizhegorodskoy gosudarstvennoy meditsinskoy akademii], 2016, 237 p.
- [8] Revolutions as subject of a scientific and philosophical reflection: materials of the All-Russian scientific conference with the international participation (N. Novgorod, on April 23–24, 2016). In 2 parts. Part I [Revolyutsii kak predmet nauchnoy i filosofskoy refleksii: materialy Vserossiyskoy nauchnoy konferentsii s mezhdunarodnym uchastiem (N. Novgorod, 23–24 aprelya 2016 g.). V 2-kh chastyakh. Chast' II]. N. Novgorod, Publishing house of the Nizhny Novgorod state medical academy [Izd-vo Nizhegorodskoy gosudarstvennoy meditsinskoy akademii], 2016, 199 p.
- [9] Revolution as concept and event: monograph [Revolyutsiya kak kontsept i sobystie: monografiya] / Editorial board: A.A. Vartumyan, S.G. Ilyinskaya, M.M. Fedorova. Moscow, LLC TSIUMINL, 2015, 183 p.
- [10] Subetto A.I. Vladimir Ilyich Lenin: the genius of the Russian Break of mankind by socialism [Vladimir Il'ich Lenin: geniy Russkogo Proryva chelovechestva k sotsializmu]. Saint Petersburg, Asterion, 2010, 498 p.
- [11] Subetto A.I. World-wide and historical value of the Great Russian Socialist revolution and Russia as her creator. The end of «a system of Money» and noosphere socialism in the 21st century [Vsemirno-istoricheskoe znachenie Velikoy Russkoy Sotsialisticheskoy revolyutsii i Rossii kak ee tvortsja. Konets «stroya Deneg» i noosfernoy sotsializm v XXI veke]. Kostroma, KSU of N. A. Nekrasov, 2007, 44 p.
- [12] Subetto A.I. Global imperialism and noosphere and socialist alternative [Global'nyy imperializm i noosferno-sotsialisticheskaya al'ternativa]. Saint Petersburg, Asterion, KSU of N.A. Nekrasov, 2004, 99 p.
- [13] Subetto A.I. Ideology of the 21st century [Ideologiya XXI veka] / Under edition red. of V.V. Lukyanov. Saint Petersburg, Asterion, 2014, 92 p.
- [14] Subetto A.I. An imperative of noosphere and socialist transformation of the world in the 21st century [Imperativ noosferno-sotsialisticheskogo preobrazovaniya mira v XXI veke] / Under nauny. V.D. Komarov's edition. Saint Petersburg, Asterion, 2012, 34 ps.

- [15] Subetto A.I. *Kapitalokratiya and global imperialism* [Kapitalokratiya i global'nyy imperialism]. Saint Petersburg, Asterion, 2009, 572 p.
- [16] Subetto A.I. *Kapitalokratiya. Myths of liberalism and destiny of Russia. 2 rel.* [Kapitalokratiya. Mify liberalizma i sud'ba Rossii. Vtor. izd.]. Kostroma, KSU of N.A. Nekrasov, 2002, 360 p.
- [17] Subetto A.I. *Lenin, October revolution and noosphere socialism – development symbols in the 21st century* [Lenin, Oktyabr'skaya revolyutsiya i noosfernnyy sotsializm – simvoly razvitiya v XXI veke]. Kostroma, KSU of N.A. Nekrasov, 2012, 460 p.
- [18] Subetto A.I. *The manifesto of fight against global imperialism* [Manifest bor'by protiv global'nogo imperializma]. Kostroma, KSU of N.A. Nekrasov, 2004, 38 p.
- [19] Subetto A.I. *The manifesto of noosphere socialism* [Manifest noosfernogo sotsializma] / Under scientific edition of V. G. Egorkin. Saint Petersburg, Asterion, 2011, 108 p.
- [20] Subetto A.I. *Mission of communism in the 21st century* [Misiya kommunizma v XXI veke] / Under scientific edition of L.A. Zelenov. Saint Petersburg, Asterion, 2012, 40 p.
- [21] Subetto A.I. *Noosferizm. Volume first. Introduction to a noosferizm* [Noosferizm. Tom pervyy. Vvedenie v noosferizm]. Saint Petersburg, Kostroma, KSU of N. A. Nekrasov, KSU of Kirill and Mefodiy, 2001, 537 p.
- [22] Subetto A.I. *Scientific and educational society as a basis of strategy of development of Russia in the 21st century* [Nauchno-obrazovatel'noe obshchestvo kak osnova strategii razvitiya Rossii v XXI veke] / Under scientific edition of V.V. Lukoyanov. Saint Petersburg, Asterion, 2015, 190 p.
- [23] Subetto A.I. *Noosphere globalization as alternative of capitalist globalization* [Noosfernaya globalizatsiya kak al'ternativa kapitalisticheskoy globalizatsii] / The Scientific report on the International symposium "Global studies: a condition and prospects of development" based on Smolny of institute of the Russian Academy of Education in St. Petersburg on May 16, 2012 [Nauchnyy doklad na Mezhdunarodnom simpoziume «Globalistika: sostoyanie i perspektivy razvitiya» na baze Smol'nogo instituta Rossiyskoy akademii obrazovaniya v Sankt-Peterburge 16 maya 2012 goda]. Saint Petersburg, Asterion, 2012, 22 p.
- [24] Subetto A.I. *Noosphere socialism as form of life of the noosphere person (basis of the theory of noosphere socialism)* [Noosfernnyy sotsializm kak forma bytiya noosfernogo cheloveka (osnovaniya teorii noosfernogo sotsializma)]. Saint Petersburg, Asterion, KGU of N.A. Nekrasov, 2006, 56 p.
- [25] Subetto A.I. *The advancing development of the person, quality of public pedagogical systems and qualities of public intelligence – a socialist imperative* [Operezhayushcheye razvitiye cheloveka, kachestva obshchestvennykh pedagogicheskikh sistem i kachestva obshchestvennogo intellekta – sotsialisticheskiy imperativ]. Moscow, Research center [Issledovat. Tsentr], 1990, 84 p.
- [26] Subetto A.I. *The bases and imperatives of strategy of development of Russia in the 21st century* [Osnovaniya i imperativy strategii razvitiya Rossii v XXI veke]. Saint Petersburg – Kostroma, KGU of N.A. Nekrasov, 2005, 324 p.
- [27] Subetto A.I. *Revolution and evolution (the methodological analysis of a problem of a ratio of these concepts)* [Revolyutsiya i evolyutsiya (metodologicheskiy analiz problemy sootnosheniya etikh ponyatiy)] / Under a scientific edition \share of L.A. Zelenov. Saint Petersburg, Asterion, 2015, 76 p.
- [28] Subetto A.I. *Childbirth of the Valid Reason* [Rody Deystvitelnogo Razuma] / Under scientific edition of L.A. Zelenov. Saint Petersburg, Asterion, 2015, 200 p.
- [29] Subetto A.I. *The Russian question and fight against global imperialism in space of a socialist revolution of the 21st century* [Russkiy vopros i bor'ba protiv global'nogo imperializma v prostranstve sotsialisticheskoy revolyutsii XXI veka]. Saint Petersburg, Asterion, 2014, 54 p.
- [30] Fedotova V.G., V.A Caps., Fedotova N. N. *Global capitalism: three great transformations* [Global'nyy kapitalizm: tri velikie transformatsii]. Moscow, Cultural revolution [Kul'turnaya revolyutsiya], 2008, 608 p.

**K.G. Isupov**

PhD, professor, Herzen State Pedagogical University, St. Petersburg;  
e-mail: k.isupov2015@yandex.ru

#### L. SHESTOV AS THE CRITIC IN DIALOGUE WITH VYACH. IVANOV

Some essential features of a philosophical discourse of Lev Shestov in a dispute with "characters" of his critical works are considered. Epistolary dialogue of the author of the article "Vyacheslav Velikolepny" with the great contemporary is article subject. Shestov very rationally thought over compositions of the things, but any of them has no deep point. This property of incompleteness of the scientific treatise is caused by the fact that for Shestov the discussed perspective is a question of an intra vital, ontologic level. As live life in principle isn't finished, all answers are given to the future. Incompleteness (non-finito) shouldn't be confused to not completion. The composition of the treatise can be finished, but tectonic isn't complete. Вяч. Ivanov willingly agrees with the interlocutor. Prototype of creative incompleteness for both correspondents is the gothic style which, unlike Romance style, in principle isn't capable to end.

**Key words:** belief and reason, gothic style, polemic discourse of a turn of centuries, stylistics of incomplete judgment, philosophical criticism of the Silver age, Lev Shestov.

#### References:

- [1] Devidson P. Athens and Jerusalem: two things not joint? (Value of the ideas of Vyach. Ivanova for modern Russia) [Afiny i Ierusalim: dve veshhi nesovmestnye? (Znachenie idej Vjach. Ivanova dlja sovremennoj Rossii)] // Vyach. Ivanov. Researches and materials [Vjach. Ivanov. Issledovaniya i materialy]. St. Petersburg, 2010, iss. 1, pp. 65–72.
- [2] Lashev V. V. Metaphysics of the Russian literature of Lev Shestov [Metafizika russkoj literatury Lva Shestova] / Diss. ... d. ph. sc. Mosocw, MGU, 2011, 351 p.
- [3] Lev Isaakovich Shestov / Ed. by T.G. Shchedrina. Moscow, Political encyclopedia [Politicheskaja jenciklopedija], 2016, 463 p.

- [4] <Piron Zhenev'eva, Shishkin A.> Ivanov – Shestov // Symbol [Simvol], Paris–Moscow, 2008, № 53–54, pp. 421–434.
- [5] Sycheva S.G. Lev Shestov and Vyach. Ivanov – magnificence of decline [Lev Shestov i Vjach. Ivanov – velikolepie upadka] // News of Tomsk Polytechnical univ. [Izvestija Tomskogo Politehnicheskogo univ-ta]. V. 317. 2010, iss. № 6, pp. 97–100.

**A.P. Valitskaya**

Ph.D., professor, corresponding member of RAE, Herzen State Pedagogical University, St. Petersburg;  
e-mail: avalitskaya@mail.ru

### ACTUALITY OF AESTHETICS AND CONSCIOUSNESS

The article describes a paradoxical situation, established in a modern era: “when there is no aesthetics per se anymore, and there is nothing already that wouldn’t be aesthetics”. The global world is subjected to challenges that put at risk the future of human civilization, – these are the risks of terrorism, environmental disasters, economic, military and political crises. The author states that the main cause of planetary instability are mental processes, taking place in axiosphere, being actively guided by an aesthetic instrument of influencing intuitive and sensual sphere of perception of individuals, “crowds” and “tribes”. Education, based on worldview, moral and aesthetic development, is a universal tool for the creation of ecology of consciousness.

**Key words:** Modern era, consciousness, mental processes, axiosphere, ontology of aesthetics, classical tradition, civilization, sociodynamics, ecology, goals of education.

#### References:

- [1] Husserl E. Edmund Husserl. Collection of works, V.1. Phenomenology of Inner Time Consciousness [Fenomenologija vnutrennjego soznanija vremenij]. Appendix XIII. Moscow, LOGOS : GNOSIS, 1994, 308 p.
- [2] Mamardashvili M.K. Forms and Content of Thinking [Formy i soderzhanie myshlenija]. – Spb.: Azbuka-Atticus, 2011, 288 p.
- [3] Mamardashvili M.K., Pyatigorskij A.M. Symbol and Consciousness [Simvol i soznanie]. Saint Petersburg, Azbuka-Atticus, 2011, 320 p.
- [4] Sartre J.- P.The Imaginative. Phenomenological Psychology of Imagination. Saint Petersburg, Science [Nauka], 2001. 320 p.
- [5] Wilber K. Theory of Everything. An Integral Vision for Business, Politics, Science and Spirituality [Teorija vsego. Integral'nyj podhod k biznesu, politike, nauke i duhovnosti] / Transl. by E. Pustoshkin. Moscow, POSTUM, 2013, 319 p.
- [6] Fichte I.G. On Human Dignity [O dostoинstve cheloveka]. Collection of works in two volumes . V. 1. Saint Petersburg, Mithril, 1993, 687 p.
- [7] Horgan J. The End of Science: Facing the Limits of Knowledge in the Twilight of the Scientific Age [Konec nauki: Vzgljad na ogranicennost' znanija na zakate Veka Nauki] / Transl. by M. Zhukova., Amphora, 2001, 419 p.
- [8] Khoruzhy S.S. Diptych of Silence. The Ascetic Teaching about the Man in Theological and Philosophical Elucidation [Diptih bezmolvija. Asketicheskoe uchenie o cheloveke v bogoslovskom i filosofskom osveshhenii]. Moscow, The Centre of Psychology and Psychotherapy, 1991, 136 p.
- [9] Khoruzhy S.S. After the Break. The Ways of Russian Philosophy [Posle pereryva. Puti russkoj filosofii]. Saint Petersburg, Aleteia, 1994, 448 p.
- [10] Chalmers D. The Conscious Mind. Search of Fundamental Theory [Soznajushhij um: V poiskah fundamental'noj teorii]. 2nd ed. Moscow, URSS: The Book House “LIBROKOM”, 2015, 512 p.

**E.V. Rochnjak**

PhD, Associate Professor, Horlivka Institute of Foreign Languages, Horlivka, Donezk People's Republic;  
e-mail: lero1981@yandex.ru

### MYTH AND MUSIC AS FUNDAMENTAL COMPONENTS OF CULTURE

Myth and music are objects of research for many branches of science. It's actual for philosophy first of all, for sociology, culturology and politology, and which of them try to determine the role of myth and music in the development of cultural history from own point of view. Especially important are practical research of their possibility to suggest, to encode, to regulate and to rule. The analyses of manipulative potential of myth and music is the main aim of the article. The article try to prove that a mass consciousness in each epoch has a mythological background, but especially it is properly for a time of changes. Because of music is a meta-art which is near to the sphere of myth-making, it could be used for purposeful changes of ideas about the world.

**Key words:** myth, music, myth-making, the mass consciousness, manipulation of consciousness, attitude, structural component of culture.

#### References:

- [1] Laku-Labart F. Musica ficta (Wagner's figures) [Musica ficta (Figury Vagnera)] / Transl., epilog and notes by V.Ja. Lapickij. Saint Petersburg, Aksioma, Azbuka, 1999, 224 s.
- [2] Levi-Stross K. Mifologiki. In 4 v. / Transl. by Z. Sokuler. V. I. Crude and boiled [Syroe i varenoe]. Moscow–Saint Petersburg, Universitetskaja kniga, 1999, 406 s.
- [3] Nicshe F. The tragedy birth from spirit of music or Ellinstvo and pessimism [Rozhdenie tragedii iz duha muzyki ili Jellinstvo i pessimism] // Nicshe F. Will to the power [Volja k vlasti] / Transl. by I. Minakov. Moscow, Eksmo; Har'kov, Folio, 2003, ss. 5–138.
- [4] The latest electronic philosophical dictionary [Novejshij jelektronnyj filosofskij slovar']. URL: <http://fil.vslовар.org.ru/664.html>

Din Y

Postgraduate student, St.-Petersburg State University, St.-Petersburg;  
e-mail: wangxu2008@mail.ru

### ON THE ISSUE OF POLITICAL STABILITY IN THE MODERN WORLD (ON THE EXAMPLE OF CHINA)

The article analyzes the main problems of preserving political stability in Chinese society. The article analyzes the system parameters of China's political stability, its external and internal factors. The article deals with different approaches and views on major issues of the study of political development in contemporary China. The author analyzes the factor of modernization and democratization of Chinese society as the foundations of stability, communication performance of economic development and the effectiveness of political management. The article presents the results of an empirical political and sociological studies of public opinion of various professional groups of Chinese citizens on the problems and prospects of China's political development.

**Key words:** political stability, political system, political changes, China, political sociology.

#### References:

- [1] Beck U. Risk Society. On the way to another modern [Obshhestvo riska. Na puti k drugomu modernu] / Trans. by B. Sedelnikova and N. Fedorova. Moscow, Progress-Tradiciya, 2000, 384 p.
- [2] Vinogradov V.D., Petrov A.V. Modern processes of social development of Russia and China: opportunities and prospects for comparative analysis [Sovremennye processy socialnogo razvitiya Rossii i Kitaya: vozmozhnosti i perspektivy srovnitel'nogo analiza] / Bulletin of the Russian Humanitarian Foundation [Vestnik rossijskogo gumanitarnogo nauchnogo fonda]. 2005, № 1 (38), pp. 106–111.
- [3] Vinogradov V.D., Petrov A.V. Russian democracy and neoliberal reforms: structural and historical context of the development of civil society [Rossijskaya demokratiya i neoliberal'nye reformy: strukturno-istoricheskiy kontekst razvitiya grazhdanskogo obshhestva] / Society. Environment. Development [Obshchestvo. Sreda. Razvitie]. 2007, № 2, pp. 3–9.
- [4] Vinogradov V. D., Savin S. D. Democratization in the aspect of modern civilization processes [Demokratizaciya v aspekte sovremennoy civilizacionnyh processov] / Bulletin of SPbGU. Ser. 12 [Vestnik SPbGU. Ser. 12]. 2010, iss. 4, pp. 254–259.
- [5] Efremenko D.V. Global turbulence and the metamorphosis of Russian policy [Globalnaya turbulentnost i metamorfozy rossijskoj politiki] / Political science [Politicheskaya nauka]. 2012, № 1, pp. 51–68.
- [6] Miletsky V.P. Legal culture as a factor of consolidation and stability of modern Russian society [Pravovaya kultura kak faktor konsolidacii i stabilnosti sovremennoy rossijskoy obshhestva] / Proceedings of the St.-Petersburg State University of Culture and Arts [Trudy Sankt-Peterburgskogo gosudarstvennogo universiteta kultury i iskusstv]. 2015, vol. 208, pp. 222–228.
- [7] Negrova M.S., Savin S.D. On the notion of political stability factors changing society [O ponyatii politicheskikh faktorov stabilnosti izmenyayushchegosya obshhestva] / Bulletin of SPbGU. Ser. 12 [Vestnik SPbGU. Ser. 12]. 2012, iss. 2, pp. 238–246.
- [8] Petrov A.V. Globalization and social foundations of economic sovereignty of Russia [Globalizaciya i socialnye osnovy ekonomicheskogo suvereniteta Rossii] / Society. Environment. Development [Obshchestvo. Sreda. Razvitie]. 2009, № 1, pp. 81–99.
- [9] Petrov A.V. Features of formation of the democratic system and political stability in the multinational countries: Russia and China in the first decade of the XXI century [Osobennosti formirovaniya demokraticheskoy sistemy i sohraneniya politicheskoy stabilnosti v mnogonacionalnyh stranah: Rossiya i Kitay v pervom desyatilietii XXI veka] / Society. Environment. Development [Obshchestvo. Sreda. Razvitie]. 2010, № 1, pp. 54–56.
- [10] Declassified for the first 12 years of data on social inequality China. URL: [http://www.mt5.com/ru/prime-news/fullview/527-rassekrechenyi\\_pervyye\\_za\\_12\\_let\\_dannye\\_o\\_sotsialnom\\_neravenstve\\_knr](http://www.mt5.com/ru/prime-news/fullview/527-rassekrechenyi_pervyye_za_12_let_dannye_o_sotsialnom_neravenstve_knr) (23.05.2016)
- [11] Janicki O.N. Turbulent times as the problem of the risk society [Turbulentnye vremena kak problema obshhestva risika] / Social Sciences and the Present [Obshhestvennye nauki i sovremennost]. 2011, № 6, pp. 155–164.
- [12] Bardhan P.K. Awakening Giants, Feet of Clay: assessing the economic Rise of China and India. New Jersey, Princeton and Oxford, Princeton University Press, 2010, 192 p.
- [13] Rosenau J.N. Turbulence in world Politics: A Theory of Change and Continuity. Princeton, Princeton univ. press, 1990, 480 p.
- [14] Shambaugh D. The Coming Chinese Crackup [Electronic resource]. URL: <http://www.wsj.com/articles/the-coming-chinese-crack-up-1425659198> (01.06.2016)
- [15] Shirk S. China: Fragile Superpower. Oxford, Oxford University Press, 2007, 320 p.

S. Striegnitz

Dr. sc. (Privatdozentin), Berlin (Germany);  
e-mail: mfistoria@mail.ru

### «SPECIAL STRUCTURE». ABOUT COMPLETION OF ACTIVITY OF PROFESSOR FROM THE GERMAN DEMOCRATIC REPUBLIC IN HUMBOLDT UNIVERSITY OF BERLIN

Sonja Striegnitz combines personal memories with supporting documents about “turning operations” at Humboldt University of Berlin. This was her longstanding academic workplace from 1963 until 1996. They relate to the political situation in Berlin starting from the last months of the GDR until the mid-1990s. The focus is on the run-down of the History Department and structural changes leading to its re-establishment as the Institute of History. Her work covers aspects of democratic upheaval and redesign mainly affecting teaching in the autumn of 1989. It illuminates abrupt changes brought about by massive intervention by the Berlin Senate following the

demise of the GDR. This intervention had the declared aim of "elite replacement". The author was included in these changes. She reveals how she dealt with her own situation as an employee with lesser rights in a "special structure". This included the struggle for recognition of academic qualifications acquired in the GDR.

**Key words:** GDR Historians, Autumn 1989 in Germany, Downfall of the GDR, Replacement of an elite, History of the Soviet Union, Teaching in a special structure.

#### References:

- [1] Berliner Zeitung. – 1990, 31 Dezember.
- [2] Dokumente gegen Legenden. Chronik und Geschichte der Abwicklung der MitarbeiterInnen des Instituts für Geschichtswissenschaften an der Humboldt-Universität zu Berlin. – Berlin, 1996.
- [3] Mehls E., Schützer H., Striegnitz S. Seminar – Institut – Fachbereich. Die Geschichte Osteuropas an der Humboldt-Universität zu Berlin: Blick auf ein halbes Jahrhundert // Osteuropa in Tradition und Wandel. Leipziger Jahrbücher. Bd. 8(1): Osteuropakunde an der Leipziger Universität und in der DDR. – Leipzig, 2006. – S. 99–131.
- [4] Mertens L. Lexikon der DDR-Historiker. Biographien und Bibliographien zu den Geschichtswissenschaftlern aus der Deutschen Demokratischen Republik. München, 2006.
- [5] Striegnitz S. Eine „Sonderstruktur“. Über das Ende meines Arbeitslebens an der Humboldt-Universität zu Berlin // Nachlese zur Osteuropakunde. Zum Leipziger Universitätsjubiläum. Osteuropa in Tradition und Wandel. Leipziger Jahrbücher. Band 10: Rosa-Luxemburg-Stiftung Sachsen. Gesellschaft für Kultursoziologie. – Leipzig, 2008. – S. 149–162.
- [6] Der Tagesspiegel. – 1991, 11 Juni.

**Wang Xu**

Postgraduate student, St.-Petersburg State University, St.-Petersburg;  
e-mail: wangxu2008@mail.ru

#### FEATURES OF POLITICAL CULTURE OF CHINA

The article deals with the features of modern political culture of China in its close relationship with the historical traditions and national character of the Chinese people. The article analyzes the main theoretical approaches to the study of the political culture. The article discusses the features of the modern attitudes of Chinese citizens to the various aspects of the development of modern political culture in Chinese society. The article analyzes the issues of the impact of traditional and modern political culture in maintaining political stability and the implementation of political reforms in China. Studies of political culture in modern society are considered as a promising direction of political sociology in China.

**Key words:** political culture, Confucianism, Legalism, Taoism, Buddhism, the national character, political culture, political sociology

#### References:

- [1] Anokhin V.V. Cultural traditions and paradoxes of modern China's modernization [Kulturnye tradicii i paradoksy modernizacii sovremennoego Kitaya] // Bulletin of BDU. Ser. 3 [Vestnik BDU. Ser. 3]. 2009, № 1, pp. 41–58.
- [2] Gavrov S.N. The Political culture [Politicheskaya kultura] // Social and cultural anthropology: history, theory, methodology. Encyclopedic Dictionary [Sociokulturnaya antropologiya: istoriya, teoriya, metodologiya. Enciklopedicheskij slovar]. Moscow, Akademicheskij proekt, Konstanta, 2012, pp. 733–740.
- [3] Glushchenko V.V. Politology: system-management approach [Politologiya: sistemno-upravlencheskij podxd]. Moscow, PH V.V. Glushchenko, 2008, 160 p.
- [4] Gulyaikhin V.N. Archetypes political culture of Russian citizens [Arxetipy politicheskoy kultury rossijskix grazhdan] // Sociodynamics [Sociodinamika]. 2013, № 1, pp. 153–170.
- [5] Melnikov A.P. China's Political Culture [Politicheskaya kultura Kitaya] // Bulletin of Brest. Univ. Ser. 1. Philosophy. Politology. Sociology [Vestn. bresc. un-ta. ser. 1. Filosofiya. Politologiya. Sociologiya]. 2012, № 1, pp. 76–81.
- [6] Perelomov L.S. Early Confucianism and Legism in the political culture of modern China [Rannee konfucianstvo i legizm v politicheskoy kulture sovremennoego Kitaya] // Chinese philosophy and modern civilization: Sat. articles [Kitajskaya filosofiya i sovremennaya civilizaciya: sb. statej]. Moscow, Eastern Literature, 1997, 157 p.
- [7] Pozhidaeva A. Different Faces of Chinese [Raznye lica kitajcev] / Hermes [Germes]. 2009, № 6, pp. 75–77.
- [8] Zhao Meng. Political science and the reform of China's political system [Politicheskaya nauka i reforma politicheskoy sistemy KNR] // Far Eastern Affairs [Problemy Dalnego Vostoka]. 2010, № 3, pp. 72–77.

---

#### SOCIAL PHENOMENA

---

**A.V. Petrov**

Ph. D. (Sociology), professor, St. Petersburg State University, the executive director, the Russian-Chinese Center for Comparative Social, Economic and Political Studies of St. Petersburg State University, St. Petersburg; e-mail: petroval4@yandex.ru

#### ON SOME PERSPECTIVE BRANCHES OF MODERN ECONOMIC SOCIOLOGY

The article deals with the promising areas of modern economic and sociological researches. The article describes the contemporary problems of social and economic ecology, researches of labor culture and lifelong learning systems, social responsibility of business and social partnership, as well as the sociology of economic development and historical sociology of economy. It is expected that the efforts of scientists towards research within these areas will not only bring them out from the periphery of scientific interest, but also to give a new impetus to the development of modern economic sociology.

**References:**

- [1] Vinogradov D. A., Petrov A. V. The social responsibility of Russian business during the current global economic crisis: issues and trends [Socialnaya otvetstvennost rossijskogo biznesa v period sovremennoj globalnogo ekonomicheskogo krizisa: problem i tendencii] // Society. Environment. Development [Obshchestvo. Sreda. Razvitie]. 2012, № 3, pp. 64–67.
- [2] Dobbin F. Comparative and historical approaches in economic sociology [Sravnitelnyj i istoricheskiy podhody v ekonomicheskoy sociologii] // Economic sociology [Ekonomicheskaya sociologiya]. 2016, vol.17, №. 3, pp. 37–74.
- [3] Karaseva K. S. Labor culture and marketing of sustainable relationships with customers (CRM) in the context of economic globalization [Kultura truda i marketing ustojchivyh vzaimootnoshenij s potrebityeli (CRM) v usloviyah ekonomicheskoy globalizacii] // Society. Environment. Development [Obshchestvo. Sreda. Razvitie]. 2014, № 1, pp. 60–63.
- [4] Kozina I. M. Industrial conflicts in modern Russia [Industrialnye konflikty v sovremennoj rossii] // Economic sociology [Ekonomicheskaya sociologiya]. 2009, vol. 10, № 3, pp. 16–32.
- [5] Petrov A. V. Historical sociology and social history of economy in the economic and sociological researches [Istoricheskaya sociologiya i socialnaya istoriya hozyajstva v ekonomiko-sociologicheskikh issledovaniyah] // Society. Environment. Development [Obshchestvo. Sreda. Razvitie]. 2013, № 2, pp. 113–117.
- [6] Petrov A. V. Organizational culture and the development of lifelong learning systems in modern companies [Organizacionnaya kultura i razvitiye sistemy nepreryvnogo obucheniya v sovremennyh kompaniyah] // Society. Environment. Development [Obshchestvo. Sreda. Razvitie]. 2014, № 3, pp. 72–76.
- [7] Petrov A. V., Karaseva K. S. Main theoretical approaches to the study of modern corporate labor culture [Osnovnye teoretičeskie podhody k issledovaniju sovremennoj korporativnoj kultury truda] // Bulletin of St.-Petersburg State University. Series 12. Psychology. Sociology. Pedagogy [Vestnik Sankt-Peterburgskogo universiteta. Seriya 12. Psihologiya. Sociologiya. Pedagogika]. 2015, vol. 2, pp. 86–92.
- [8] Petrov A. V., Sunarchina M. M. Social partnership as a factor of development of the modern work culture: a regional perspective [Socialnoe partnerstvo kak faktor razvitiya sovremennoj kultury truda regionalnyj aspekt] // Society. Environment. Development [Obshchestvo. Sreda. Razvitie]. 2015, № 1, pp. 72–76.
- [9] Smirnova N. I. Organizational culture industry: a study of the German construction group [Organizacionnaya kultura promyshlennyyh predpriyatiy issledovanie nemetskogo stroitel'nogo koncerna] // Economic sociology [Ekonomicheskaya sociologiya]. 2005, vol. 6, № 3, pp. 70–89.
- [10] Social ecology and the development of environmental awareness in Russia and China. (Collection of articles) [Socialnaya ekologiya i razvitiye ekologicheskogo soznaniya v Rossii i Kitae (sbornik statej)] / Ed. N.G. Skvortsov, He Tszenke. St.-Petersburg, Asterion, 2013, 112 p.
- [11] Tilly Ch. Historical Sociology [Istoricheskaya sociologiya] / Sociological studies [Sociologicheskie issledovaniya]. 2009, № 5, pp. 95–101.
- [12] Petrov A. New Horizons for Learning and Teaching Economic Sociology in the Modern Higher Education: Theoretical Aspects // Mediterranean Journal of Social Sciences. 2015, vol. 6, № 6 S5, p. 24–29. DOI: 10.5901/mjss.2015.v6n6s5p24

**E.N. Suvorkina**

Candidate of Cultural Studies, Head of Sector of systematization Scientific Library,  
Ryazan State University named after S.A. Esenin, Ryazan;  
e-mail: suvorkina@list.ru

## **ERSATZ RELATIONS IN CHILDHOOD SUBCULTURE IN THE PLANE OF «CHILD – ADULT» IN THE CONTEXT OF RELATIVES**

The article examines the phenomenon of ersatz relations in the subculture of childhood in the context of family relationships in the plane of relations “child – adult”. These relationships involve the replacement of the original ersatz subject / object, which, as a rule, have formed a negative image perception stereotype. Allocated individual and collective ersatz entities. It identified several models of individual ersatz entities: ersatz mother (mother substitute family), ersatz father (father surrogate family), ersatz parents (family with a mother and father substitutes), surrogacy, ersatz grandmother / grandfather. The first three models can be complicated by the presence of their own natural children of one of the ersatz entities or common born later married. In relation to the child, they will be a half-sisters / brothers – ersatz sisters / brothers. Collective ersatz entities is basically based on the collective unconscious (the archetype of the child) (K. Jung), when the maintenance of its security, the preservation of the life forces of the whole of society – the prerogative. In this case, you should talk about the children, who are considered close relatives several people, but not consisting in relationship to each other (the son of the regiment).

**Key words:** baby, kids, subculture of childhood, stepfather, stepmother, ersatz relationships, ersatz entity, plane relations, kinship, ersatz father, ersatz mother, ersatz parents, individual ersatz entity, collective ersatz entity, surrogacy.

**References:**

- [1] Abramenkova V.V. The social psychology of childhood [Sotsial'naia psikhologija detstva]. Moscow, PER SE Publ., 2008, 432 p.
- [2] Zelenaya R. Scattered pages [Razroznennye stranitsy]. Moscow, AST Publ., 2016, 448 p.
- [3] Mishanenkova E. Faina Ranevskaya. One day in postwar Moscow [Faina Ranevskaia. Oden' den' v poslevoennoi Moskve]. Moscow, AST Publ., 2015, 239 p.
- [4] Ozhegov S.I. Explanatory Dictionary of the Russian language [Tolkovyi slovar' russkogo iazyka]. Moscow, Peace and Education Publ., 2013, 736 p.

- [5] The Soviet encyclopaedic dictionary [Sovetskii entsiklopedicheskii slovar'] / Ed. A.M. Prokhorov. Moscow, Soviet encyclopedia Publ., 1984, 1600 p.
- [6] Suvorkina E.N. The morphology of the subculture of childhood: cultural analysis [Morfologija subkul'tury detstva: kul'turologicheskii analiz]. Ryazan, Publishing House of the Russian State University named after S.A. Esenin, 2016, 172 p.

**V.A. Sulimov**

Doctor of culturology, Associate Professor, Syktyvkar State University named after P. Sorokin, Syktyvkar; e-mail: vasulimov@mail.ru

### THE IDENTITY OF THE KNOWER: FORMATION IN THE ACTIVITY

Modern conditions of social and cultural development has created new requirements to the public subject – a man-in-culture. There is a convergence of the two major types of socially important subjects: man-in-culture, and knower. This factor significantly transforms the intellectual space of culture. The knower represents human species, pushing the new conditions for the education and upbringing. The study of systems of functions of the knowing consciousness is possible only with an integrated approach taking into account P.A. Sorokin.

**Key words:** the knower, the man-in-culture, intellect, education.

#### References:

- [1] Howard Gardner. The structure of the mind: the theory of multiple intelligences [Struktura razuma: teorija mnogozhestvennogo intellekta]. Moscow, Williams, 2007, 512 p.
- [2] Giddens E. dispensation of society: Outline of structuration theory [Ustroenie obshhestva: Ocherk teorii strukturacij]. 3rd ed. Moscow, Academic Project, 2015, 528 p.
- [3] Leontiev A.A. What is the activity approach in education [Chto takoe dejatel'nostnyj podhod v obrazovanii] // Elementary School plus [Nachal'naja shkola pljus]. 2001, № 1, pp. 3–6.
- [4] Leontiev D.A. Essay on psychology of personality [Ocherk psihologii lichnosti]. Moscow, Meaning [Smysl], 1993, 43 p.
- [5] Leontiev D.A. Psychology of meaning: the nature, structure and dynamics of the sense of reality [Psihologija smysla: priroda, stroenie i dinamika smyslovoj real'nosti]. 2nd ed. Moscow, Meaning [Smysl], 2003, 487 p.
- [6] Merton R. Social Theory and Social Structure [Social'naja teorija i social'naja struktura]. Moscow, AST: AST Moscow: Keeper [Hranitel'], 2006, 873 p.
- [7] Moss Marseille. Company. Exchange. Personality. Proceedings in Social Anthropology [Obshhestva. Obmen. Lichnost'. Trudy po social'noj antropologii] / Comp., transl., foreword, comments A.B. Gofman. Moscow, SAM, 2014, 416 p.
- [8] Rabinovich V.L. Man in culture. Introduction to the metaphorical anthropology [Chelovek v kul'ture. Vvedenie v metaforicheskiju antropologiju]. Moscow, FORUM, 2008, 336 p.
- [9] Sorokin P.A. American sexual revolution [Amerikanskaja seksual'naja revoljucija]. Moscow, Prospect, 2006, 151 p.
- [10] Sorokin PA Human. Civilization. Society [Chelovek. Civilizacija. Obshhestvo] / Ed., preface A.Y. Sogomono-va. Moscow, Politizdat, 1992, 543 p.

---

### WORLD OF ART CULTURE

---

**N.G. Yakunichev**

PhD, Associate Professor, the Saint-Petersburg State Art and Industry Academy named after A.L. Stieglitz; Member, the Saint Petersburg Design Union, Saint Petersburg; e-mail: klk53@mail.ru

#### ART AS THE PREREQUISITE OF SYSTEMATICAL DESIGN

The article analyzes the issue of a systematical connection between art and design. Traditionally, design is seen as the successor of art in addressing problems of style- and form-generation. However, the establishing of the holistic approach as a method for solving creative challenges became the equally important result of art historical development. Usually this aspect receives less attention. The work denotes the likeness of methodical approaches in art and design.

**Key words:** art, design, methods of systematical design.

#### References:

- [1] Alberti, Leon Battista. On the Art of Building in Ten Books. Trans. Leach, N., Rykwert, J., & Tavenor, R. Cambridge: The MIT Press, 1988.
- [2] Arnheim R. Art and Visual Perception: A Psychology of the Creative Eye. University of California Press, Berkeley, CA 94720, U.S.A., 1974. New version; expanded and revised edition of the 1954 original. 508 p.
- [3] Vernadskii V.I. Reflections of the naturalist: Scientific thought as planetary phenomenon [Razmishlenija naturalista: Niachniyi misl kak planetarnoe yavlenie]. – V. 2. M.oscow, Science [Nauka], 1977, 191p.
- [4] General history of arts (in six volumes) [Vseobshaya istorija iskusstv (v 6 tomah)] V. 3. Moscow, Art [Iskusstvo], 1956, 1039 p.
- [5] Theoretical and methodical problems of art designing of complex objects [Teoretnicheskie I metodicheskie problem hudozhestvennogo konstruirovaniya kompleksnih obektov]. Ed. V.F.Sidorenko // Trudi VNIITE. Ser. Technicheskaja estetika. Moscow, VNIITE, 1979, iss. 22, 167 p.
- [6] Ziolkovskii K.E. Research of world spaces jet devices [Issledovanie mirovih prostranstv rearnivnimi priborami]. Moscow, Mashinostroenie, 1967, 367 p.
- [7] Ziolkovskii K.E. Industrial space exploration //Collection of works [Promishlennoe osvoenie rosmosa / Sbornik trudov]. Moscow, Mashinostroenie, 1989, 278 p.

- [8] Yakunichev N.G. The object form as a programm of development [Predmetnaya forma kak programma razvitiya] // Izvestya RGPY im. Gerzena. 2013, № 133, p. 207–218.
- [9] Yakunichev N.G. The intermediary function of art [Posrednickeskaya funktsiya iskusstva] // Izvestya RGPY im. Gerzena. 2013, № 161, p. 162–168.
- [10] Yakunichev N.G. The position of intermediary as the factor of evolution in Western art [Pozicija posrednika kak faktor evolucii izobrazitel'nogo iskusstva Zapada] // Izvestya RGPY im. Gerzena. 2013, № 159, p. 167–174.
- [11] Knowledge burden: as doubts help us to develop [Bremia znanja: kak somnenia pomogaut nam razvivatsja] // Theories and practicians on April 19, 2016 [Teorii i praktiki 19 apreli 2016]. URL: <http://theoryandpractice.ru/posts/13392-not-knowing>

## CULTURAL HERITAGE

**A. von Buttlar**

Ph.D. (Art History), Professor, Technical University of Berlin, Berlin (Germany);  
e-mail: buttlar@tu-berlin.de

### PRESERVING POSTWAR-MODERNITY A SPECIAL DEBATE IN GERMANY?

Discussions regarding the preservation of postwar monuments (postwar modernism) allow to articulate the selectiveness of “strategies of memory.” The decisions about reconstruction or demolition of the buildings from 1950s – 1970s represent a form of war of symbols, where victory belongs to the party that bears dominant ideology. Berlin is a very representative case, since on each side of the Iron Curtain new architectural objects were involved in the battle of two systems, and also because both types of representation had to abandon national-socialist past.

**Key words:** postwar architecture modernism, strategies of memory, restitutio memoriae, damnatio memoriae, salvatio memoriae, restitutio memoriae, preservation of cultural heritage, demolition of buildings, identity, historical significance, architecture and politics,

#### References:

- [1] Assmann A. Rekonstruktion – Die zweite Chance, oder: Architektur aus dem Archiv // Geschichte der Rekonstruktion – Konstruktion der Geschichte / Ed. by W. Nerdinger. – Munich, 2010. – P. 16–23.
- [2] Bartetzko D. Zwischen Pathos und Pragmatismus – Paul Baumgartens Umbau des Reichstagsgebäude // «Dem Deutschen Volke» – Der Bundestag im Berliner Reichstagsgebäude / Ed. by H. Wefing. – Bonn, 1999. – P. 136–161.
- [3] Butter A., Hartung U. Ostmoderne: Architektur in Berlin 1945–1965. – Berlin, 2004.
- [4] Buttlar, von A. Architektur der Nachkriegsmodeme als Forschungs- und Vermittlungsaufgabe // Rolf Gutbrod – Bauen in den Boomjahren der 1960er (= Schriften des Suddeutschen Archivs für Architektur und Ingenieurbau, 2) / Ed. by Klaus Jan Philipp. – Salzburg–Wien, 2011. – P. 32–49.
- [5] Buttlar, von A. Berlin's Castle versus Palace – A Proper Past for Germany's Future? // Future Anterior IV/I (Columbia University). – New York, 2007. – P. 12–29.
- [6] Buttlar, von A. Preserving Postwar-Modernity A Special Debate in Germany? // The Challenge of the Object. 33rd Congress of the International Committee of the History of Art. Nürnberg, 15–20. Juli 2012. Congress Proceedings. Part 2. – Nürnberg: Verlag des Germanischen Nationalmuseums, 2013. – P. 465–468.
- [7] Buttlar, von A., S. Hain S. Landesdenkmalrat zum Planwerk Innenstadt // Der Architekt. – 1997, № 12. – P. 721–725.
- [8] Cullen M.S. Der Reichstag. Im Spannungsfeld deutscher Geschichte (2nd ed.). – Berlin, 2004.
- [9] Denkmal Ost-Modeme – Aneignung und Erhaltung des baulichen Erbes der Nachkriegsmodeme (= Stadentwicklung und Denkmalpflege, 16) / Ed. by M. Escherich. – Berlin, 2012.
- [10] Der Kanzler kann den Palast der Republik nicht mehr ertragen – Palast sprengen? Stadtschloss bauen? // Berliner Zeitung. – 05.11.1999.
- [11] Die Kongreßhalle. Geschichte, Einsturz, Wiederaufbau / Ed. by the Senator für Bau und Wohnungswesen. – Berlin, 1987.
- [12] Falser M. Zwischen Identität und Authentizität. Zur politischen Geschichte der Denkmalpflege in Deutschland. – Dresden, 2008. – P. 243–250.
- [13] Falser M. Zwischen Identität und Authentizität: Zur politischen Geschichte der Denkmalpflege in Deutschland / Ph.D. diss. – Berlin, 2006; Dresden, 2008.
- [14] Fehling und Goge – Die Max-Planck-Gesellschaft als Bauherr der Architekten Hermann Fehling und Daniel Gogell / Ed. by Peter Gruss/Gunnar Klack/Matthias Seidel. – Berlin, 2009. – P. 94–97.
- [15] For the interim modernization by Baumgarten // Paul Baumgarten – Bauten und Projekte 1924–1981 (= Schriftenreihe der Akademie der Künste, 19). – Berlin, 1988. – P. 219–224.
- [16] Forthe Unesco-initiative«DoppeltesBerlin». URL:[Общество. Развитие № 3'2016](https://www.google.de/search?q=Zoofenster&ie=utf-8&oe=utf-8&q=t&rls=org.mozilla:de:official&client=firefox-a&source=hp&channel=np#hl=de&gs_rn=1&gs_ri=serp&tok=mvdczuybaWsJl4eYnZ2sw&pq=unesco%20welterbe%20berlin%20st%C3%A4dtbau&cp=23&gs_id=2e9&xhr=t&eq=Unesco%20Doppeltes%20berlin&pf=p&client=firefox-a&hs=cl&tbo=d&rls=org.rnozilla:de%3Aofficial&channel=np&scil=psy-ab&eoq=Unesco+Doppeltes+berlin_gs_l=&pbx=1&bav=on.2,or_r_gc,r_pw,r_qf&bvm=bv.1355534169,d.Yms&fp=30a3908a783e9fb0&bpcl=40096503&biw=1902&bih=891</li>
<li>[17] Gruger S. Der Reichstag als Symbol. Untersuchung seiner Bedeutungen von 1990 bis 1999. – Stuttgart-Berlin, 2003.</li>
<li>[18] Hillmann R. Das Fakultätsgebäude für Bergbau und Hüttenwesen der Technischen Universität Berlin / Ed. by tht Technische Universität Berlin. – Petersberg, 2013.</li>
<li>[19] Jencks Ch. The Language of Post-Modern Architecture. – London, 1977.</li>
</ul>
</div>
<div data-bbox=)

- [20] Kuhrmann A. Der Palast der Republik. Geschichte und Bedeutung des Ost-Berliner Parlaments- und Kulturhauses. – Petersberg, 2006.
- [21] Opening speech at the exhibition «Bernhard Heiliger: Licht Bild Skulptur» in the Marie Elisabeth Lüders Haus Berlin. – URL: [http://www.bundestag.de/\\_kulturundgeschichte/kunst/kunst\\_ausst/heiliger/rede\\_thierse.html](http://www.bundestag.de/_kulturundgeschichte/kunst/kunst_ausst/heiliger/rede_thierse.html)
- [22] Planwerk Innenstadt Berlin – Ein erster Entwurf / Ed. by the Senatsverwaltung für Stadtentwicklung, Umweltschutz und Technologie. – Berlin, 1997, URL: [http://www.stadtentwicklung.berlin.de/planen/planwerke/de/planwerk\\_innenstadt/index.shtml](http://www.stadtentwicklung.berlin.de/planen/planwerke/de/planwerk_innenstadt/index.shtml)
- [23] Rudder, de S. Der Architekt Hugh Stubbins – Amerikanische Moderne der Fünfziger Jahre in Berlin. – Berlin, 2007. – P. 59–62.

## PEDAGOGICAL EXPERIENCE

**V.A. Rabosh,**

Doctor of Philosophical Sciences, Professor, honored worker of Higher school of Russia, acting rector, Herzen State Pedagogical University of Russia, Saint-Petersburg;  
e-mail: rector@herzen.spb.ru

**K.V. Sultanov,**

Doctor of Philosophy, Professor, honored worker of science of the Russian Federation, Herzen State Pedagogical University of Russia, Saint-Petersburg;  
e-mail: child2000@bk.ru

**A.A. Voscresensky,**

PhD in Philosophy science, Assistant lecturer, Herzen State Pedagogical University, Saint-Petersburg;  
e-mail: voscres@gmail.com

## CONCEPTUAL BASES OF MANIPULATIVE TECHNOLOGIES IN EDUCATION

The article investigates the conceptual foundations of the possibilities of using techniques of manipulation in the education. On the basis of the “theory of fields” Bourdieu is considered a value and the possibility of deliberate manipulation as a communicative phenomenon for the modern highly computerized society and education. It is concluded that the phenomenon of manipulative techniques can not be reduced to its negative value.

**Key words:** manipulation, generation y, deliberate manipulation, information society, postmodernity.

### References:

- [1] Docenko E.L. The psychology of manipulation. The phenomena, mechanisms and protection. [Psihologija manipulacii. Fenomeny, mehanizmy, zashchita]. Moscow, 1996, 343 p.
- [2] Popova E.S. The advertising text and the problem of manipulation: [Reklamnyj tekst i problema manipulacii] / Diss. ... philosophy sciences.. Ekaterinburg, 2005, 154 p.
- [3] Puju Ju.V. Anthropology manipulation [Antropologija manipulirovaniya] // Bulletin of Leningrad state University of A.S. Pushkin [Vestnik LGU im. A.S. Pushkina]. 2010, №2 (2), pp. 61–67.
- [4] Puju J.V., Romanenko I.B., Sultanov K.V. Manipulative impacts and educational technologies: the formation of the discussion and dialogue culture of students [Manipulativnye vozdejstvija i obrazovatel'nye tehnologii: formirovaniye diskussionno-dialogovoj kul'tury studentov] // Society. Environment. Development [Obshhestvo. Sreda. Razvitiye]. 2015, № 4, pp. 132–137.
- [5] Rjabov G.G., Suvorov V.V. Manipulation is a tool of creative intelligence [Manipulirovanie – instrumental'noe sredstvo tvorcheskogo intellekta] // Open education [Otkrytoe obrazovanie], 2002, № 3, pp. 52–59.
- [6] Sultanov K.V., Voskresenskij A.A. Characteristics and problems of the generation Y in the educational space of modern Russian [Features and problems of generation of Y are in educational space of modern Russia] // Society. Environment. Development [Obshhestvo. Sreda. Razvitiye]. 2015, № 3, pp. 150–153.
- [7] Harash A.U. Socio-psychological mechanisms of communicative influence. [Social'no-psihologicheskie mehanizmy kommunikativnogo vozdejstvija]. Moscow, 1983, 156 p.
- [8] Shelestjuk E.V. Speech effects: the ontology and methodology of research [Rechevoe vozdejstvie: ontologija i metodologija issledovanija] / Authoref. of diss. doctor of philological Sciences. Cheljabinsk, 2009, 27 p.

## SCIENTIFIC INQUIRY

**A.N. Paranina,**

Candidate of geographical sciences, Associate professor,  
Herzen State Pedagogical University of Russia, St. Petersburg;  
e-mail: galina\_paranina@mail.ru

**R.V. Paranin,**

Student, Herzen State Pedagogical University of Russia, St. Petersburg;  
e-mail: galina\_paranina@mail.ru

## SIGN AS DISPLAY OF A GEOGRAPHICAL SPACE-TIME: POSSIBILITIES OF INTERDISCIPLINARY RESEARCH

The researches of northern labyrinths conducted by authors by means of a gnomon of solar clocks calendars allow to reconstruct process of creation of a sign as reflections (graphic display) of technologies of astronomical orienta-

**160** | tion in a space-time. In article are considered: semiotics opportunities of schedules of a shadow as models of a geographical space-time (marking of seasons of year and situation in geographical space); examples of graphic and semantic compliance of the reference forms of a shadow and exemplars of the material and non-material culture; a new method of semiotics and linguistic reconstruction – from a natural source of information on a space-time.

**Key words:** navigation, gnomon, shadow form, information, sign.

#### References:

- [1] Paranin V.I. Historical geography of Annalistic Russia [Istoricheskaya geographiya Letopisnoy Rusi]. Petrozavodsk, Karelia, 1990, 152 p.
- [2] Paranin V.I. History of barbarians [Istoriya varvarov]. St. Petersburg, RGO, 1998, 284 p.
- [3] Paranin R.V., Paranina G.N. Labirint: orientation in geographical space and evolution of a sign [Labirint: orientatsiya v geographicheskem prostranstve I evolutsiya znaka] / Geocultural space of the European North: genesis, structure, semantics [Geokulturnoye prostranstvo Severnoi Evropy: genesis, struktura, semantika]. Arkhangelsk, 2009, pp. 516–518.
- [4] Paranina G.N. Light in a labyrinth: time, space, information [Svet v labirinte: vremya, prostranstvo, informatsiya]. St. Petersburg, Asterion, 2010, 123 p.
- [5] Paranina G.N. Reflection of space and time in ancient symbols (on the example of Rurik's sign) [Otrageniye prostranstva-vremeni v drevnih simvolah (na primere znaka Rurika)] // Society. Environment. Development [Obshhestvo. Sreda. Razvitiye]. 2010, № 2, pp.199–207.
- [6] Paranina A.N. Natural and cultural heritage as reflection of evolution of development of a space-time [Prirodnoe I kulturnoe nasledie kak otragenie 'volutsii osvoeniya prostranstva-vremenii] // Natural and cultural heritage: cross-disciplinary researches, preservation and development [Prirodnoe I kulturnoe nasledie: mezditsiplinarnie issledovaniya, sohranenie i razvitiye], St. Petersburg, RGPU of A.I. Herzen, 2015 pp. 71–80.
- [7] Paranina G.N., Paranin R.V. Northern labyrinths as astronomical tools in the ratio with exemplars of mythology and symbols of culture [Severnye labirinti kak astronomicheskie instrumenti v sootnoshenii s mifologicheskimi obrazami i simvolami kulturi] // Society. Environment. Development [Obshhestvo. Sreda. Razvitiye]. 2009, № 4, pp. 120–134.
- [8] Stafeev S.K., Tomilin M.E. Five millennia of optics: background [Pyat tisiacheletiy optiki: predistoriya]. St. Petersburg, Polytechnique, 2006, 304 p.
- [9] Paranina G.N. Northern Labyrinths – gnomon and models of geographical space // Elsevier. Procedia. Social and Behavioral Sciences. 2011, № 19, pp. 593–601.
- [10] Paranina A.N. Navigation in Space-Time as the Basis for Information Modeling // Scientific Research Publishing, Archaeological Discovery, 2014, vol. 2, № 3, pp. 83–89. doi: 10.4236/ad.2014.23010
- [11] Paranina A.N. Gnomon as sours of information on planet rhythms. Intern // J. Geomate, Osaka, Japan. 2016, vol. 10, pp. 1815–1821.
- [12] Paranina A.N., Paranin R.V. Interaction of the nature and ancient persons on the coast of the White Sea // J. Wetlands Biodiversity, 2014, № 4, pp. 131–140.
- [13] Paranina A., Paranin R. Northern Labyrinths as Navigation Network Elements // Activities in Navigation. Marine Navigation and Safety of Sea Transportation. London – New-York – Leiden, CRC Press, 2015, pp. 177–180.

## ENVIRONMENT

### UNDERSTANDING THE NOOSPHERE

**V.L. Palii,**

Senior Lecturer, Gorvement University of Pridnestrovie T.G.Shevchenko;  
Competitor, Saint Petersburg state university;  
e-mail: geo.graff@mail.ru

**D.V. Sevastyanov,**

Doctor of geographical sciences, professor, Actual member of Russian geographical society,  
manager by the department of country-specific Studies and international tourism,  
Saint Petersburg State University, Saint-Petersburg;  
e-mail: ecolim@rambler.ru

### ECOLOGICAL AND ECONOMIC IMPERATIVES AS THE BASIS FOR SUSTAINABLE DEVELOPMENT OF TOURIST-RECREATIONAL SPHERE IN TRANSNISTRIA

The article considers possible ways of development of tourist-recreational sphere in Transnistria in connection with the modern political and socio-economic problems of the region. Discusses the problem of optimizing the development of recreation and tourism in Transnistria. Affirms the need to respect the ecological and economic imperative in the way the complex solution of problems of revival of tourist-recreational sector of the entire Transnistrian region, in accordance with the concept of sustainable development. Refers to the strategy of development of tourism and recreational activities in Transnistria.

**Key words:** ecology, economy, tourist and recreational attractiveness, tourism infrastructure, environmental and economic imperative for sustainable development.

**References:**

- [1] Bogolybova S.A. Ecological and environmental estimation of recreational resources. [Ecologo-ekonomicheskaya otsenka recreatsionnih resursov]. Mosocw, Academy, 2009, 260 p.
- [2] Burla M.P. Current state of economy of PMR and anti-recessionary opportunities of tourism // Lecture about socio-economic development of ПМР in 2015 the Specified variant.. Tiraspol, Government service of statistics, 2014, 90 p.
- [3] Drozdov A.V. Bases of ecological tourism. [Osnovi ekologicheskogo turizma]. Moscow, Gardariki, 2005, pp.153–164.
- [4] Kolbovskii E.Y. [Ecologicheskii turizm i ekologiya turizma] Ecological tourism and ecology of tourism. Moscow, Academy, 2006, pp.159–184.
- [5] Palii V.L. The analysis of prospects of development of tourism to Transnistria and some recommendations about development of branch [Analiz perspektiv razvitiya turizma v Pridnestrov'e i nekotorye rekomendacii po razvitiyu otrashli] // Materials of the international scientific and practical conference "Social projects of a new era: innovations through integration". TMU, 2–3 April, 2014, pp 343–347.
- [6] Palii V.L. Tourist-recreational potential of Pridnestrovie and prospect of his use [Turistsko-recreatsionnii potensial Pridnestrovia i perspektivi ego ispolzovanya] // Iss. Announcer SPSU, ser. 7, 2016, № 2.
- [7] Palii V.L Ecological and environmental aspects of development of tourist-recreational sphere in Pridnestrovie [Ecologo-economicheskie aspect razvitya turistsko-recreatsionnoi sfery v Pridnestrov'e] // Society. Environment. Development [Obshhestvo. Sreda. Razvitiye], 2016, № 2, pp. 9–13.
- [8] Press release "The main tourist activity indicators for 2015). [Press-vypusk «Osnovnie pokazateli turisticheskoi deyatelnosti» za 2015 g.] / State Statistics Service of the Ministry of Economic Development of Pridnestrovie. URL: mer.gospmr.org/gosudarstvennaya-statistika
- [9] Rusev I. The Dniester Delta. Odessa, Astroprint, 2003, 764 p.
- [10] Stovbchatyi M. N., Mayatsky I. N. Forest-based ecological optimization of landscape, conservation and restoration of biodiversity. Materials of the Republican scientific research Institute of ecology and natural resources, 2003, 256 p.
- [11] A transboundary diagnostic study of the Dniester river basin. Project report of the OSCE/UNECE "Trans-boundary cooperation and sustainable management of the river Dniester, Kiev–Chisinau, November 2005, 72 p. URL: [http://berg-bendery.org/new\\_resources/water/supervising/dniester-osce.pdf](http://berg-bendery.org/new_resources/water/supervising/dniester-osce.pdf)
- [12] Fomenko V.G., Paly V.L., Sherstyuk S.A. Natural and recreational potential as a basis for development of ecological tourism in Pridnestrovie [Prirodno-recreatsionnii potensial kak osnova razvitya ekologicheskogo turizma v Pridnestrov'e]. // Materials of the V International Scientific-Practical Conference: Geoenvironmental and bio-ecological problems of the North Black Sea coast (PMR, Tiraspol, November 14, 2014), pp. 296–301.
- [13] Identification and review of key environmental and security problems in the Transnistrian region, Republic of Moldova. URL: [www.envsec.org/publications](http://www.envsec.org/publications)

**GLOBAL ECOLOGICAL CRISIS: MYTHS AND REALITY****N.N. Filatov,**

Corresponding member of the Russian Academy of Sciences, Dr. sc., prof., Northern Water problems Institute of Karelian Research Center of Russian Academy of Sciences, Petrozavodsk;  
e-mail: nfilatov@rambler.ru

**N.M. Kalinkina,**

Dr. sc., prof., Head of laboratory of Hydrobiology, Northern Water problems Institute of Karelian Research Center of Russian Academy of Sciences, Petrozavodsk;  
e-mail: nfilatov@rambler.ru

**A.V. Litvinenko,**

Chief researcher, Northern Water problems Institute of Karelian Research Center of Russian Academy of Sciences, Petrozavodsk;  
e-mail: nfilatov@rambler.ru

**P.A. Lozovik,**

Dr. sc., Head of laboratory of Hydrochemistry, Northern Water problems Institute of Karelian Research Center of Russian Academy of Sciences, Petrozavodsk;  
e-mail: nfilatov@rambler.ru

**E.V. Tekanova,**

Ph. D., chief researcher, Northern Water problems Institute of Karelian Research Center of Russian Academy of Sciences, Petrozavodsk;  
e-mail: nfilatov@rambler.ru

**STATE AND CHANGES OF THE LARGEST LAKES-RESERVOIRS OF NORTH-WEST OF EUROPEAN PART OF RUSSIA**

In the paper presents the results of studies of the dynamics of water ecosystems of large lakes of North-west of Russia (Onegskoe and Vigozerskoe), transformed in the middle of the XX-th century into reservoirs. These are

important water objects for development of economy of the region especially nowadays with increasing exploitation of Arctic resources. To restore the state of these lakes-reservoirs to oligotrophic status, which are of great importance fisheries it need to significantly reduce the discharge of polluted and insufficiently purified waters.

**Key words:** Lakes, reservoirs, anthropogenic influence, climatic changes, water supply, ecosystems, modeling.

#### References:

- [1] Bioresources of Lake Onego [Bioresursy Onezhskogo ozera] / Eds. V.I. Kucharev, A.A. Lukin. Petrozavodsk, KarNTs RAN, 2008, 273 p.
- [2] Kalinkina N.M., Sidorova A.I., Polyakova T.N., Belkina N.A., Berezina N.A., Litvinova I.A. Decline in the deepwater benthic communities abundance in the Onego Lake under multifactor influence [Snizhenie chislennosti glubokovodnogo makrozoobentosa Onezhskogo ozera v usloviiakh mnogofaktornogo vozdeistviia] // Principles of the Ecology [Printsypr ekologii]. 2016, vol. 5, № 2, pp. 43–61. URL: <http://ecopri.ru/journal/article.php?id=5182> (21.09.2016)
- [3] The largest lakes-reservoirs of the north-west European part of Russia: current state and changes of ecosystems under climate variability and anthropogenic impact [Krupneishie ozera-vodokhranilishcha Severo-Zapada Evropeiskoi chasti Rossii: sovremennoe sostoianie i izmenenija ekosistem pri klimaticheskikh i antropogennykh vozdeistviakh] / Ed. N.N. Filatov. Petrozavodsk, KarNTs RAN, 2015. 375 p.
- [4] Kudersky L.A. Ecology and biological productivity of the reservoirs [Ekologija i biologicheskaja produktivnost' vodokhranilishch]. Moscow, Znanie, 1986, 64 p.
- [5] Litvinenko A.V., Filatov N.N., Bogdanova M.S., Karpechko V.A., Litvinova I.A., Salo Y.A. Anthropogenic transformation and economic use of Lake Vygozero [Antropogennaia transformatsiya i khoziaistvennoe ispol'zovanie ozera Vygozero] // Water resources [Vodnye resursy]. 2014, vol. 41, № 4, pp. 1–10.
- [6] Litinskaya K.D. Reservoirs in the Water Management [Vodokhranilishcha v sisteme vodnogo khoziaistva] // Use and protection of water resources of the White Sea basin [Ispol'zovanie i okhrana vodnykh resursov basseina Belogo morja]. Petrozavodsk, KarNTs RAN, 1994, pp. 57–72.
- [7] Lakes of Karelia. Reference book [Ozera Karelii] / Ed. N.N. Filatov. Petrozavodsk, KarNTs RAN, 2013, 464 p.
- [8] Rukhovets L.A., Filatov N.N. Application of mathematical models to the tasks of preservation of Onego Lake water resources [Ispol'zovanie matematicheskikh modelei dlja reshenija zadach sokhraneniya vodnykh resursov Onezhskogo ozera] // Transactions of the Karelian Research Centre of RAS [Trudy Karel'skogo nauchnogo tsentra RAN]. 2011, № 4, pp. 77–87.
- [9] Status of water objects in republic of Karelia according to 1998–2006 monitoring results [Sostoianie vodnykh ob'ektov Respubliki Karelija. Po rezul'tatam monitoringa 1998–2006 gg.] / Eds P.A. Lozovik, T.P. Kulikova, N.N. Martynova. Petrozavodsk, KarNTs RAN, 2007, 209 p.
- [10] Tekanova E. V., Syarki M. T. Peculiarities of phenology of the primary production process in the pelagic zone of Lake Onega [Osobennosti fenologii pervichno-produktionsionnogo protsesssa v pelagiali Onezhskogo ozera]. Biology Bulletin [Izvestiya RAN. Serija biologicheskaja], 2015, vol. 42, № 6, pp. 556–562.
- [11] Filatov N.N., Georgiev A.P., Efremova T.V., Nazarova L.E., PalShin N.I., Tolstikov A.V., Sharov A.N., Rukhovets L.A. Response of lakes in Eastern Fennoscandia and Eastern Antarctica to climate changes [Reaktsija ozer Vostochnoi Fennoscandii i Vostochnoi Antarktidy na izmenenija klimata] // Doklady Academy of Sciences [Doklady Akademii nauk], 2012, vol. 444, № 2, pp. 752–755.

**A.M. Dregulo,**

PhD, Chief researcher, Institution of Russian Academy of Sciences Saint-Petersburg Scientific-Research Centre for Ecological Safety RAS (SPCES RAS), St. Petersburg;  
e-mail: irina\_gildeeva@mail.ru

**V.V. Kulibaba,**

PgD, Institution of Russian Academy of Sciences Saint-Petersburg Scientific-Research Centre for Ecological Safety RAS (SPCES RAS), St. Petersburg;  
e-mail: irina\_gildeeva@mail.ru

**I.M. Guldeeva,**

PhD, associate professor, the Bonch-Bruevich Saint-Petersburg State University of Telecommunications, St. Petersburg;  
e-mail: irina\_gildeeva@mail.ru

#### THE SLUDGE LANDFILL AS SPECIFICALLY OBJECT PAST ENVIRONMENTAL DAMAGE (IN THE GULF OF FINLAND)

The widespread use of methods of soil deposit of sludge led to the formation of objects of the past accumulated environmental – sludge beds withdrawn from economic circulation. The toxicity of excess sludge and long-term life cycle of landfill sludge cause the specificity of these objects. Multiple influences sludge beds may be due to a high content of solid phase sludge of heavy metals, organic pollutants, related to a group of dioxin and specificity of microbial community. Studies have shown the presence of more than 50 sites with signs of silt objects accumulated environmental damage in the private swimming pool Gulf of Finland. The composition of the heavy metal sludge sites exceeds the permissible limits for soils, for some components of up to 22 MACs for gross forms. Comparative analysis microcenosis sludge shows nearly 90% of the published data inconsistencies, which focuses on the study of sludge biocenosis in closed systems landfill sludge.

**Key words:** sludge landfill, past environmental damage, heavy metals, microcenosis sludge, specific pollutants, the environmental condition of the Gulf basin, soil pollution, life cycle sludge landfill.

**References:**

- [1] Borzosekov A.N. Methods of dezinvatation of wastewater and precipitation in the conditions of Central Black Earth region (on an example of Kursk Region.) [Metodyi dezinvatsii stochnyih vod i ih osadkov v usloviyah Tsentralno-Chernozemnoy zony (na primere Kurskoy obl.)] / Ref of diss. ... cand. of biological sciences. // avtoreferat na soiskanie stepeni kandidata biologicheskikh nauk. Kursk, 2006.
- [2] Dregulo A.M. Investigation of intra-change in the composition of aquatic aeration tanks in wastewater treatment [Issledovanie vnutrigodovogo izmeneniya sostava gidrobiontov v aeroteknah pri ochistke stochnyih vod] // Water Management Russia [Vodnoe hozyaystvo Rossii]. – № 6.- 2012.. pp. 90-96.
- [3] Dregulo A.M., Vitkovskaya R.F., Petrov A.N. Objects of past environmental damage and the problem of disposal of silt soil and sewage sludge [Ob'ektyi proshlogoo ekologicheskogo uscherba i problemyi pochvennoy utilizatsiya ilov i osadkov stochnyih vod] // Herald SPGUTD. 2016, № 1, pp. 68–71.
- [4] Dregulo A.M., Panova N.E. Evaluation of the negative impact on the environment polygons storage deposits of biological structures [Otseka negativnogo vozdeystviya na okruzhayuschuyu sredu poligonov skladirovaniya osadkov biologicheskikh sooruzheniy] // Ecology and Industry of Russia [Ekologiya i promyishlennost Rossii]. 2012, № 8, pp. 43–45.
- [5] Karaev N.A. Environmental assessment of the impact of wastewater on the processes of natural biological treatment [Ekologicheskaya otseka vliyaniya stochnyih vod na protsessyi estestvennoy biologicheskoy ochistki] // Ref. of diss. ... candidate of veterinary sciences. St. Petersburg, 2006.
- [6] Kulibaba V.V., Kleimenova I.E. Assessment of the stability of natural and economic systems on the example of the area of the line of industrial plants [Otseka ustoychivosti prirodno-hozyaystvennyih sistem na primere rayona raspolozheniya lineynih promyishlenniy ob'ektov] // Environmental protection in oil and gas sector [Zashchita okruzhayushey sredy i neftegazovom komplekse]. 2014, № 10, pp. 26–32.
- [7] Materials for the state report "On the state sanitary and epidemiological welfare of the population in the Leningrad Region in 2015" [Materialy k gosudarstvennomu dokladu «O sostoyanii sanitarno-epidemiologicheskogo blagopoluchiya naseleniya v Leningradskoy oblasti v 2015 godu】 // Rospotrebnadzor in Leningrad domain [Upravlenie Rospotrebnadzora po Leningradskoy oblasti]. St. Petersburg, 2015.
- [8] Guidelines for the inventory of accumulated environmental damage / Order of 25.04.2012 number Rosprirodnadzor 193 [Metodicheskie rekomendatsii po provedeniyu inventariatsii ob'ektov nakoplennogo ekologicheskogo uscherba / Prikaz Rosprirodnadzora ot 25.04.2012 № 193]. Moscow, 2012.
- [9] Panov V.P., Dregulo A.M. The content of heavy metals in excess silts and sediments of the biological treatment plant (for example, St. Petersburg) [Soderzhanie tyazhelyih metallov v izbyitochniyih ilah i osadkah biologicheskikh ochistnyih sooruzheniy (na primere g. Sankt-Peterburga)] // Security in technosphere [Bezopasnost v tehnosfere]. 2010, № 3, pp. 37–39.
- [10] Pitulko V.M., Kulibaba V.V., Viktorov S.V. Geoenvironmental aspects of environmental safety of natural and economic systems of the Gulf of Finland [Geoekologicheskie aspekti obespecheniya ekologicheskoy bezopasnosti prirodno-hozyaystvennyih sistem finskogo zaliva] // Regional ecology [Regionalnaya ekologiya]. 2011, № 1–2 (31), pp. 7–12.
- [11] PND F 14.1.77-96 Security Toolkit for hydrobiological and bacteriological control of biological treatment process at plants with aeration tanks [Metodicheskoe rukovodstvo po gidrobiologicheskemu i bakteriologicheskemu kontrolyu protsessa biologicheskoy ochistki na sooruzheniyakh s aeroteknami]. Moscow, 1996.
- [12] Saraev A.K., Simakov A.E., Pitulko V.M., Kulibaba V.V., Tokarev I.V., Tezkan B. Inventory and assessment of buried objects past environmental damage to soil and groundwater using new technology radiomagnitoliterricheskikh soundings [Inventariatsiya i otseka pogrebenniyih ob'ektov proshlogoo ekologicheskogo uscherba v pochvah i gruntovyih vodah s ispolzovaniem novoy tekhnologii radiomagnitoliterricheskikh zondirovaniy] // Regional ecology [Regionalnaya ekologiya]. 2015, № 1 (36), pp. 7–21.
- [13] Tyutyunkova M.V. Investigation of the behavior of heavy metals in the soil agro-ecosystems under way disposal of sewage sludge from the sludge beds USC Kaluga [Issledovanie povedeniya tyazhelyih metallov v agroekosistemah pri pochvennom puti utilizatsii osadkov stochnyih vod s ilovyih ploschadok OSK g. Kalugi] / Ref. of diss. ... candidate of biological sciences. Kaluga, 2007.
- [14] Khudoley V.V., Livanov G.A., Kolbasov S.E., Friedman K.B. Dioxin danger in the city [Dioksinovaya opasnost v gorode]. St. Petersburg, Chemistry Research Institute of St. Petersburg State University, 2000, 124 p.
- [15] Chemaeva O.V. Environmental assessment of sewage sludge and using them as fertilizer [Ekologicheskaya otseka osadkov stochnyih vod i ispolzovanie ih v kachestve udobreniya] // Ref. of diss. ... candidate of biological sciences. Ulyanovsk, 2003.
- [16] Yakhnin E.Ya., Pitulko V.M., Kulibaba V.V. Using geochemical data in the allocation and environmental assessment of natural and economic systems and urbanized areas (Leningrad region) [Ispolzovanie geohimicheskikh danniyih pri vyidelenii i ekologicheskoy otseki prirodno-hozyaystvennyih sistem i urbanizirovannyih territoriy (na primere Leningradskoy oblasti)] // Regional ecology [Regionalnaya ekologiya]. 2015, № 1 (36), pp. 35–43.

**V.A. Rumyantsev,**

the academician of the Russian Academy of Sciences, the doctor of geographical sciences,  
the research supervisor, INOZ Russian Academy of Sciences, St. Petersburg;  
e-mail: rum.ran@mail.ru

**A.S. Mityukov,**

the doctor of agricultural sciences, the leading researcher, INOZ Russian Academy of Sciences, St. Petersburg;  
e-mail: mitals@yandex.ru

**A.O. Zagrebin,**

Candidate of Biology, the senior research associate, INOZ Russian Academy of Sciences, St. Petersburg;  
e-mail: zigzag.56@mail.ru

**V.D. Tonkopy,**

the doctor of medical sciences, professor, the leading researcher,  
INOZ Russian Academy of Sciences, St. Petersburg;  
e-mail: tonkopi@hotmail.ru

**L.N. Kryukov,**

the Doctor of Chemistry, the chief researcher, INOZ Russian Academy of Sciences, St. Petersburg;  
e-mail: kryukovln@yandex.ru

## INNOVATIVE TECHNOLOGY OF CONVERSION OF SAPROPEL, UNIQUE EFFICIENCY AND SAFETY OF NEW PRODUCTS

The problem resolution of a sustainable development and competitiveness of domestic economy is inseparably linked with ensuring food security of the country. One of the directions of increase of productivity of production in agriculture, plant growing and animal husbandry is transformation of food additives and fertilizers to nanostructural products with the increased physical and chemical activity, high ion-exchange, sorption and catalytic properties. In this regard this research is devoted to new technology of conversion of the sapropel long since used in agricultural industry. By means of ultrasonic processing of sapropel ultradisperse gumato-sapropelic suspensions with particles the sizes of 86-89 nanometers, belonging to nanoparticles have been created. During researches it has been established that the received suspensions are effectively deactivated by widespread ekotok-sikant. Inclusion in a food allowance of farm animals of the received ultradisperse gumato-sapropelic suspensions leads to a considerable average daily surplus of live weight. Developed new safe and natural means can be used for replacement of expensive import food additives and veterinary preparations.

**Key words:** sapropel, suspension, nanostructure, safety, dietary supplement.

### References:

- [1] Distanov U.G. Nonconventional types of nonmetallic mineral raw materials [Netradicionnye vidy nerudnogo mineral'nogo syr'ya] / Under the editorship of U.G. Distanov, A.S. Filko. Moscow, Subsoil [Nedra], 1990, 260 p.
- [2] Yermolaeva N.I., Mark E.Yu., Romanov R.E., Leonova G.A., Puzanov A.V. Hydrobiological conditions of formation of sapropels in lakes of the South of Western Siberia [Gidrobiologicheskie usloviya formirovaniya saprophej v ozerah yuga Zapadnoj Sibiri] // Water resources [Vodnye resursy]. V. 43. 2016, № 1, pp. 79–91.
- [3] Ezhkov V.O., Yapparov A.Kh., Nefedyev E.S., Ezhkova A.M., Yapparov I.A., Gerasimov A.P. Nanostructural minerals: receiving, chemical and mineral structures, structure and physical and chemical properties [Nanostrukturnye mineraly: poluchenie, himicheskij i mineral'nyj sostavy, struktura i fiziko-himicheskie svojstva] // Bulletin of the Kazan technological university [Vestnik Kazanskogo tekhnologicheskogo universiteta]. V. 17. 2014, № 11, pp. 41–44.
- [4] Ezhkova A.M., Yapparov A.Kh., Ezhkov V.O., Yapparov I.A., Sharonova N.L., Degtyareva I.A., Hisamutdinov N.Sh., Bikkina L.M.Kh. Production of nanodimensional bentonite, studying of its structure, toxic properties and definition of safe doses of application [Izgotovlenie nanorazmernogo bentonita, izuchenie ego struktury, toksicheskikh svojstv i opredelenie bezopasnyh doz primeneniya] // Russian nanotechnologies [Rossijskie nanotekhnologii]. V. 10. 2015, № 1–2, pp. 100–105.
- [5] Ezhkova A.M., Yapparov A.Kh., Ezhkov V.O., Bikkina L.M.Kh., Yapparov I.A., Gerasimov A.P. Development of nanostructural phosphorite: research of safety of application [Razrabotka nanostruktturnogo fosforita: issledovanie bezopasnosti primeneniya] // Reports of Academy of Sciences [Doklady Akademii nauk]. V. 467. 2016, № 2, pp. 242–245.
- [6] Zagrebin A.O., Rumyantsev V.A., Tonkopy V.D. Development of methods of bioidentification of xenobiotics for an assessment of quality of water [Razrabotka metodov bioidentifikacii ksenobiotikov dlya ocenki kachestva vody] // Water resources [Vodnye resursy]. V. 43. 2016, № 1, pp. 92–96.
- [7] The international recommendations (the ethical code) about carrying out medicobiological researches with use of animals [Mezhdunarodnye rekomendacii (ehticheskij kodeks) po provedeniyu mediko-biologicheskikh issledovanij s ispol'zovaniem zhivotnykh]. Moscow, Council of the International scientific organizations [Sovet Mezhdunarodnyh nauchnyh organizacij], 1985.
- [8] MU 1.2.2520-09. Hygiene, toxicology, sanitation. Toksikologo-gigienichesky assessment of safety of nano-materials. Methodical instructions [MU 1.2.2520-09. Gigiena, toksikologiya, sanitariya. Toksikologo-gigien-

- icheskaya ocenka bezopasnosti nanomaterialov. Metodicheskie ukazaniya]. Moscow, Federal Center of hygiene and epidemiology of Rospotrebnadzor [Federal'nyj Centr gigienny i epidemiologii Rospotrebnadzora], 2009.
- [9] Orlov D.S., Trish L.A. Praktikum in humus chemistry [Praktikum po himii gumusa]. Moscow, MSU, 1981, 272 p.
- [10] Ostroumov S.A., Kolesov G.M. About a role of a biogenous detrit in accumulation of elements in water systems [O roli biogenного detrita v akkumulyacii ehlementov v vodnyh sistemah] // The Siberian ecological magazine [Sibirskij ekologicheskij zhurnal]. 2010, № 4, pp. 525–531.
- [11] Perminova I.V. Analysis, classification and forecast of properties of humic acids. Thesis of the Doctor of Chemistry [Analiz, klassifikatsiya i prognoz svojstv gumusovykh kislot. Dissertatsiya doktora khimicheskikh nauk]. Moscow, Moscow State University [Moskovskij gosudarstvennyj universitet], 2000, 359 p.
- [12] Rumyantsev V.A., Drabkova V.G., Izmaylov A.V. The largest lakes of the world and prospect of their practical use [Krupnejshie ozyora mira i perspektivi ih prakticheskogo ispol'zovaniya] // Bulletin of the Russian Academy of Sciences [Vestnik Rossijskoj akademii nauk]. V. 84. 2014, № 1, pp. 52–61.
- [13] Rumyantsev V.A., Kryurov L.N., Pozdnyakov Sh.R., Zhukovsky A.V., Mityukov A.S. Influence of ancient sapropel on water “blossoming” [Vliyanie drevnego sapropelya na «cvetenie» vody] // Reports of Academy of Sciences[Doklady Akademii nauk]. V. 460. 2015, № 3, pp. 343–345.
- [14] Sharonova N.L., Yapparov A.Kh., Hisamutdinov N.Sh., Ezhkova A.M., Yapparov I.A., Ezhkov V.O., Degtyareva I.A., Babynin E.V. Nanostructural water and phosphoritic suspension – new perspective fertilizer [Nanostruktturnaya vodno-fosforitnaya suspenziya – novoe perspektivnoe udobrenie] // the Russian nanotechnologies [Rossijskie nanotekhnologii]. V. 10. 2015, № 7–8, pp. 115–122.
- [15] Shtin S.M. Lake sapropels and their complex development [Ozernye sapropeli i ih kompleksnoe osvoenie] / Under the editorship of I.M. Yaltants. Moscow, Moscow state Mining University [Moskovskij gosudarstvennyj gornoj universitet], 2005, 373 p.

**P.A. Leontev,**

Assistant, Herzen State Pedagogical University of Russia, St. Petersburg;  
e-mail: barograph@yandex.ru

**I.M. Grekov,**

Assistant, Herzen State Pedagogical University of Russia, St. Petersburg;  
e-mail: ivanmihgrekov@gmail.com

**D.A. Subetto,**

Doctor of Geographical Sciences, Professor, Director, the Institute of Water Problems of the North Karelian Research Centre of RAS, Petrozavodsk, St. Petersburg;  
e-mail: subetto@mail.ru

**D.D. Kuznetsov,**

Candidat of the Geographic Sciences, Research Fellow, the Institute of Limnology RAS, St. Petersburg;  
e-mail: dd\_kuznetsov@mail.ru

**V.V. Kolka,**

Cand. of Geol.&Miner. Sci., Associate Professor, Head of Laboratory, Geological Institute KSC RAS, Apatity;  
e-mail: kolka@geoksc.apatity.ru

**A.V. Ludikova,**

PhD in Geography, Researcher, Institute of Limnology RAS, Saint Petersburg;  
e-mail: ellerbeckia @ yandex.ru

**M.S. Potakhin,**

PhD in Geography, Associate Professor, Senior Researcher,  
Institute of Northern Water Problems of RAS, Petrozavodsk:  
e-mail: potakhin@nwpi.krc.karelia.ru

**T.V. Sapelko,**

PhD in Geography, Senior researcher, the Institute of Limnology RAS, Saint Petersburg;  
e-mail: tsapelko@mail.ru

**L.S. Syrykh,**

Junior Researcher, Herzen State Pedagogical University of Russia, Saint Petersburg;  
e-mail: lyudmilalsd@gmail.com

**D.S. Tolstobrov,**

Junior Researcher, Geological Institute KSC RAS, Apatity;  
e-mail: tolstobrov@geoksc.apatity.ru

## STRATIGRAPHY OF LACUSTRINE DEPOSITS FROM THE ONEGA PENINSULA, THE WHITE SEA

Paleolimnological field studies in the areas of the Onega Peninsula, the White Sea, were carried out in the frame of the complex expedition in July 2014. Field studies included reconnaissance, study of terrain and altitude position of lakes, its selection and visual inspection, specification marks the water's edge and threshold runoff,

bathymetric survey, sampling of modern sediments, sediment coring selected lakes with a raft of peat corer (for subsequent pollen, diatom, chironomid, grain size analysis, determining the weight of loss on ignition and radiocarbon dating), lithological description of the sediment cores. The preliminary reconstruction of the White Sea shore position has been done on the base of preliminary stratigraphical studies of lake sediment cores.

**Key words:** lacustrine sediments, stratigraphy, paleogeography, Holocene, the Onega Peninsula, the White Sea, Lake Konyukhovskoye, Lake Pertozero.

#### References:

- [1] Kolka V.V., Evzerov V.Y., Moeller Y.A., Corner D.D. Navigating the sea level in the Late Pleistocene-Holocene stratigraphy and bottom sediments isolated lakes on the southern shore of the Kola Peninsula, in the region of the village Umba [Peremeshhenie urovnya morya v pozdnem pleistocene-golocene i stratigrafiya donnyx osadkov izolirovannyx ozyor na yuzhnom beregu Kolskogo poluostrova, v rajone posyolka Umbaj] // Bulletin of the RAN. Geographical Series [Izvestiya RAN. Seriya geograficheskaya] 2013, № 1, pp. 73–88.
- [2] Leontiev P.A., Kuznetsov D.D., Subetto D.A. Reconstruction of the rapid transformation of climatic environments during the Late Pleistocene and Holocene, based on research paleolimnological lakes Onega Peninsula, White Sea. // Fundamental problems of quarters. The results of the study and the main directions of further research: Proceedings of the IX All-Russian Conference on Quaternary Research (Irkutsk, 15–20 September 2015) [Rekonstrukciya bystryx transformacij prirodno-klimaticeskix obstanovok v pozdnem pleistocene i golocene na osnove paleolimnologicheskix issledovanij ozyor Onezhskogo poluostrova Belogo morya. // Fundamentalnye problemy kvartera. Itogi izuchenija osnovnyx napravlenija dalnejshix issledovanij: Materialy IX vserossijskogo soveshchaniya po izucheniju chetvertichnogo perioda (g. Irkutsk, 15–20 sentyabrya 2015 g.)]. Irkutsk, Institute of Geography Publisher them. V.B. Sochava SB RAS, 2015, 271 p.
- [3] Leontiev P.A., Subetto D.A., Kuznetsov D.D., Kolka V.V., Ludikova A.V., Sapelko T.V., Syrykh L.S., Tolstobrov D.S Paleolimnological studies of Lake Konyukhovskoye (the Onega Peninsula). Preliminary data [Paleolimnologicheskie issledovaniya oz. Konyukhovskogo (Onezhskij poluostrov). Predvaritelnye dannye] // Geology of seas and oceans: Proceedings of the XXI International Scientific Conference (School) on Marine geology [Geologiya morej i okeanov: Materialy XXI Mezhdunarodnoj nauchnoj konferencii (Shkoly) po morskoj geologii]. V.I. M oscow, GEOS, 2015, pp. 172–175.
- [4] Leontiev P.A., Subetto D.A., Kuznetsov D.D., Kolka V.V., Grekov I.M., Ludikova A.V., Sapelko T.V., Syrykh L.S., Tolstobrov D.S. Palaeolimnological research on the Onega Peninsula, White Sea [Paleolimnologicheskie issledovaniya na Onezhskom poluostrove Belogo morya] // Marine Research and Education: MARESEDU-2015: book of abstracts of IV International scientific-practical conference (Moscow, 19–24 October 2015) [Morskie issledovaniya i obrazovanie: MARESEDU-2015: sbornik tezisov IV Mezhdunarodnoj nauchno-prakticheskoy konferencii (Moskva, 19–24 oktyabrya 2015 g.)]. Moscow, Theoria, 2015, pp. 455–456. URL: <http://www.maresedu.com> (26.03.2016)
- [5] Lake–river systems [Ozerno – rechnye kompleksy] // National Park “Onega Pomerania” [Nacionalnyj park “Onezhskoe Pomore”]. URL: <http://onpomor.ru/view/ekosistemy/ozerno-rechnye-kompleksy.php>
- [6] Subetto D.A., Shevchenko V.P., Ludikova A.V., Kuznetsov D.D., Sapelko T.V., academician Lisitsyn A.P., Evzerov V.J., P. van Beek (P. van Beek), M. Suo (M. Souhaut), Subetto G.D. Chronology of lakes Solovetsky archipelago and speed of modern lacustrine depositional [Xronologiya izolyacii ozer Soloveckogo arkipelaga i skorosti sovremennogo ozernogo osadkonakopleniya] // Reports of the Academy of Sciences, Series “Geology” [Doklady Akademii Nauk, Seriya «Geologiya»], 2012, v. 446, № 2, pp. 183–190.
- [7] Leontiev P.A., Subetto D.A., Grekov I.M., Kuznetsov D.D., Kolka V.V., Ludikova A.V., Sapelko T.V., Syrykh L.S., Tolstobrov D.S. Paleolimnological investigations in the Onega peninsula, the White sea // Paleolimnology of Northern Eurasia. Experience, Methodology, Current Status: Proceedings of the International Conference. Yakutsk, 22–27 August, 2016 / Eds.: S. Levina, R. Gorodnichev, I. Yadrikhinski, P. Davydova. Yakutsk, North-Eastern Federal University, 2016, pp. 27–30.
- [8] Lunkka J.P., Putkinen N., Miettinen A. Shoreline dis-placement in the Belomorsk area, NW Russia, during the Younger Dryas stadial // Quaternary Science Reviews, 2012, vol. 37, pp. 26–37.