CURRICULUM VITAE

SERGEI VIKULIN

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http://www.researchgate.net/profile/Sergey_Vikulin

LANGUAGES:

English (fluent)

· French (able to translate)

· Botanical Latin

· Native Russian

EDUCATION:

*Ph.D. 1987, Botany/Palaeobotany, V.L. Komarov Botanical Institute of the Russian Academy of Sciences, Russia. **Thesis Title** 'Paleogene Floras of Tim and Pasekovo (South of the Middle Russian Upland)' *advisor* Prof.Armen L. Takhtajan; *co-advisor* Dr. Sergey G. Zhilin. ∗ "Kandidat Nauk» of Sciences in Biology (*Russian equivalent of PhD*).
M.S. 1976, B.S.1974, Biology, Leningrad State University (currently University of St. Petersburg, Russia);
Leningrad/St. Petersburg specialized PhysMath magnet high school: Math & Physics Lyceum No **239**, 1971.

🖫 Database Information Retrieval, Computer Science Seminars, London University, UK, 1992, 3 months.

EMPLOYMENT

1999 – present. **SENIOR RESEARCH SCIENTIST**, Laboratory of Paleobotany, Komarov Botanical Research Institute of the Russian Academy of Sciences [BIN RAS].

PROFESSIONAL EXPERIENCE (SINCE OBTAINING PHD):

1992 – 1999. Research Scientist.
1987 – 1992. Research Associate

- all at the Komarov Botanical Research Institute of the Russian Academy of Sciences [BIN RAS], Research specialties: *Micromorphological features of leaves to clarify systematic problems and to reveal ecological & evolutionary implications (**TEM, SEM, LM microscopy**), Angiosperm* and *Gymnosperm* history and systematic, *paleobotany*.

WORK EXPERIENCE prior PhD:

1983-1986. Postgraduate researcher ["Aspirant"], [BIN RAS], study of the Paleogene Floras of European part of the USSR (European Russia, Ukraine)

1980-1983. Probationer [BIN RAS]. Study of modern plants by Methods of leaf micromorphology to reconstruct Cenozoic Paleo-Environments.

1977-1980. Research Assistant [BIN RAS] for Dr. N. S. Snigirevskaya [Prof.] and Academician Armen Takhtajan [Prof. Dr. Dir.], study of Cenozoic, Cretaceous & Paleozoic plants by methods of anatomy. All at the Komarov Botanical Research Institute of the Russian Academy of Sciences [BIN RAS]

MAJOR RESEARCH INTERESTS

Diversification and biogeography of Cenozoic Angiosperms, Conifes and Pteridophytes. Origin and diversification of Northern Hemisphere: paratropical and temperate floras. Fossil record, diversity, phylogeny and evolution of Seagrasses. History of botany and paleobotany. I use fossil plants to investigate ancient ecosystems, past environmental change; the evolution and extinction of plants. I emphasize questions with relevance for modern climate change, biodiversity, biogeography, and ecological processes. Principal Field areas include European Russia, Caucasus, Ukraine, Western Siberia and Arctic.

MEMBERSHIPS:

- Botanical Society of Russia
- International Organisation of Paleobotany
- Paleontological Society of Russia
- *FLS* Linnean Society of London, UK **(**since 1999, ref. from Bill Chaloner, FRS**)**
- St. Petersburg's Union of Scientists, Russia
- St. Petersburg English Language Teacher's Association [SPELTA], Russia

AWARDS AND GRANTS:

Participation in Scientific Projects and Grants Received or Pending*

2010-2014 (current). **SUBPROJECT** (*direct. by S.V. Vikulin*): "**PALEOGENE FLORAS OF CENTRAL AND BALTIC AREAS OF RUSSIA**" incl. Carpology (seeds, fruits) and *Leaf compression* and *impression remains* to reconstruct whole plants, their taxonomy; Flora and Paleoclimate. http://www.bionet.nsc.ru/live/doc/Evolusia2010.pdf Page 50. within the framework **of unifying research project** "**Stages of forming and evolution of fossil floras** of **Russia** and **adjoining states**" (*director Prof. L.Yu. Budantsev, Bot. inst. RAS*) I have studied and revised previously unknown materials of my own Eocene-Oligocene collections from Central Russia as well as of P.I. Dorofeev's collection of carpoids (1958) from Kaliningrad Province of Russian Baltic area: 6 new Ericaceous species described, amongst them: *Lyonia goniocarpa* P. Dorof. et Vikulin, sp. nov. and *Pieris baltica* P. Dorof. et Vikulin, sp. nov. – first finds for respective genus in territory of Russia and adjoining states; firstly for Paleogene of Russia thermophilic *Symplocos* was revealed [*S. balticum* P. Dorof. et Vikulin, sp. nov.]. Comparison with NLR also was made. I began preparations of core drill slab samples of Komarov Bot. inst. **Boltysh collection**, consisting, besides finely preserved Angiosperm leaf compressions, of at least 5 morphotypes of ferns. Amongst them are two distinctive kinds of fern macrofossils from the **Boltysh impact crater** (Kirovograd Province, Ukraine), which were studied. Fossil samples of Late Paleocene-Early Eocene are derived from sediments of the geothermal lake that filled Bolytsh crater in Ukraine after K/Pg impact. Plant fossils collected from 250 – 445 m core interval of carbonaceous and aleuritic slates and oil-shales during the years 1966–67 by Yu. I. Selin (Kiev) and I. V. Vasiliev (St.Petersburg), as appeared after my investigations, include two well-known European fossil ferns, namely, Cretaceous relict - a surviving remnant – cosmopolitan, now completely extinct genus *Weichselia* Stiehler and Eocene species of the mainly tropical living genus *Blechnum* L. – *B. dentatum,* which was widespread in Western Europe in Early Tertiary. The collection from Boltysh includes a few noteworthy sterile fronds of *Weichselia reticulata.* The specimens of pinnules of these fern are peculiar in their reticulate venation: areolæ between the midrib and the margin are distinct. **The sterile fronds of *W. reticulata* from Boltysh appear like specimens described from Cretaceous Abu Ballas Formation of Southwestern Desert, Egypt**. The sterile pinnae (leaflets) of ***B. dentatum*** **from Boltysh** by their dentate margins and dichotomous secondary veins **resemble these of living *B. cartilagineum and B. brasiliensis* and nearly identical with fossil specimens of *B. dentatum* from British and German Eocene**. **No *Weichselia* has so far been collected from any of Early Tertiary localities.**

2006 - 2009: team member in the Russ. Found. Basic Research=RFBR Grant # 06-04-49095 "FOSSIL FLOWERING PLANTS OF RUSSIA AND NEIGHBOURING STATES" (completing of the critical revision of materials on genus *Salix* (family *Salicaceae*), 10 FAMILIES OF THE SUPERORDER **ERICANAE** AND FAMILY *MYRICACEAE*. KOMAROV BOT. INST. RAS. Lead. I.A. Iljinskaya. (shared with a Komarov Paleobot. Lab' team)

2004 - 2007: team member in the **PROGRAM OF THE PRESIDIUM OF RUSS. AC. SC.**: "BIOSPHERE ORIGIN AND THE EVOLUTION". Subtitle: "The Evolution of abiotic and biotic ecosystems of the past". Project title, **2004-2008**: "THE FOSSIL FUNGI AS COMPONENTS OF ECOSYSTEMS OF THE PAST", Leader of the Project: D.Sc. I.V. Karatygin, Komarov Bot.inst., Russ.Ac.Sc., St.Petersburg, Ru. http://www.bionet.nsc.ru/live/doc/Evolusia2010.pdf fig 29 @ page 52.

SEPTEMBER 2006 - MARCH 2007

Fulbright scholarship as FULBRIGHT VISITING SCHOLAR PROGRAM

Research: LEAF LITTER AS PALEOENVIRONMENTAL INDICATOR OF THE WARM ARCTIC
Texas State University--San Marcos, Department of Biology, San Marcos, TX, USA, c/o Dr. Garland R. Upchurch Jr.

4 / 1 / **1999** –3 / 31 / **2004**. **FOSSIL FLOWERING PLANTS OF RUSSIA AND THE ADJACENT TERRITORIES**: ***Salicaceae, Theaceae***. Sequential Grants from **Russian Found. for Basic Research** RFFBR (="РФФИ" **№№ 01-04-49342, 03-04-49691, 04-04-62035**), (shared with a Komarov Paleobot. Lab' team),

* **2002**, aug - sept: Personal Grant from Univ. Of Pennsylvania, PA USA for field works «Biomass, Productivity and Methane Production Potential of Oligocene - Age Forests from **Western Siberia**» c/o Dr. Ben Le Page, Department of Earth and Environmental Sciences, University of Pennsylvania // Joint expedition project with Inst. of Geophysics of Siberian branch of RAS, Novosibirsk).

* **2001**, jul 1 -30: Personal Travel Field Grant to participate in PennUniv Fossil Forest Project: "Biomass, structure and compositon of a high latitude Eocene forest from the **Canadian High Arctic**"c/o Dr. Ben Le Page, Department of Earth and Environmental Sciences, University of Pennsylvania, 240 South 33rd Street Philadelphia, Pennsylvania 19104-6316 **USA**

2001. November 1-30, **SENIOR VISITING RESEARCH FELLOWSHIP FROM CHINESE ACADEMY OF SCIENCES:**

Joint project with Prof. Dr. ***Cheng Sen Li***: Dpt. of Paleobotany of Chinese Inst. Bot., Beijing and Dr. Qing-Wen MA: State University of Liaocheng, Shandun' Province, China: Comparative studies of leaf micromorphology in fossil and living Glyptostrobus (Taxodiaceae).

1999. SEM studies of *epidermal pattern* in *seagrass* ***Halophila*** (Hydrocharitaceae). An award in support of travel and subsistence for a visit of thirty days: 1-30 April, **1999** as a Smithsonian Institution Short-Term Visitor (Advisor: Dr. **Mark Littler**, **Washington DC, NMNH**, Botany Department).

1997. *Comparative studies of leaf micromorphology in Fossil and Living Seagrasses*. An award in support of travel and subsistence for a visit of thirty days: 1-30 September, **1997** as a Smithsonian Institution Short-Term Visitor (Advisor: Dr. **Ernani G. Meñez**, **Washington DC, NMNH**, Botany Department).

1994-1996. Grants from National Geographic Society (*USA*) for expeditions to Kazakhstan in 1994-1996 to Kazakhstan, to Armenia (1998). Grant No. 6059 - 97, Grant No. 5369 - 94 a member of the research team of Comparative Study of the Cretaceous

and Tertiary Floras of Kazakhstan, the Urals and Transcaucasia: Anatomy and Paleo-Geography, Head of expedition Dr. S. G. Zhilin.

1992-1993; 1999, 1997. Small Stipends from the **Linnean Society of London** : 1999, 1997, 1992-1993. For taxonomic publications on paleobiodiversity. **Personal grant** *c/o Dr. John Marsden and Prof. William Chaloner, FRS.*

TEACHING (1999 – Present):

Courses Taught at the Saint Petersburg State University, Russia (since 1999, to present):

Biological Faculty: Chair of Botany: "PALEOBOTANY: FOSSIL PLANT TAXONOMY, SYSTEMATICS PALAEOFLORISTICS, PALEOECOLOGY AND PALEOCLIMATOLOGY"

OVER 100 PUBLICATIONS *IN* books, refereed and non-refereed journals, and conference proceedings.

MOST PROMINENT REFEREED PUBLICATIONS:

BOOKS AND MONOGRAPHS (PEER REVIEWED): (2)

2005: Vikulin S.V. DESCRIBED 15 SPECIES*, and is amongst principal authors: Arbuzova ON, Iljinskaja, **Vickulin SV**, Proskurin KP, Chelbaeva AI; Budantsev L(ed.). **2005. MAGNOLIOPHYTA FOSSILIA ROSSIAE ET CIVITATUM FINITIMARUM. [FOSSIL FLOWERING PLANTS OF RUSSIA AND ADJACENT COUNTRIES.] VOL. 4. NYCTAGINACEAE-SALICACEAE St. Petersburg: Komarov Botanical Institute 184 pp. + 140 plates. ISBN 5-87317-224-2** Rus 20 families. Nyct: *Abronia, Pisonia*; Port:*Portulaca*; Caryoph:*Arenaria, Stellaria, Myosoton, Cerastium, Silene*; Amar:*Amarathus*; Chen:*Chenopodium, Polycnemum, Atriplex*; Polygon:*Rumex, Persicaria, Polygonum, Reynoutria, Fallopia*; Dionc:****Dioncophyllites***; Theac:****Ternstromites, *Ternstoemia, *Adinandra, *Eurya, *Stewartia,* Schima, *Franklinia, *Camellia***; Pentaphyl:***Pentaphylax**; Clus:*Hypericum*; Elat:*Elatine*; Viol:*Viola*; Cist:*Citstus*, *Helianthemum*; Cuc:*Trichosanthes, Bryonia*; Dat:*Datisca*; Beg:*Begonia*; Capp:*Capparis*, *Cleome, Burtonella, Capparidospermum, Meloke, Capparidopsis*; Cruc:*Bunias*; Tam:*Tamarix*; Flac:*Idesia, Poliothyrsis*; Sal:****Populus***. Line drawings & LM of leaf venation patterns. LM & SEM of seeds. Violaceae, Palaeobotany Fossils, Pentaphylacaceae, Begoniaceae, Amaranthaceae, Datiscaceae, Elatinaceae, Capparaceae, Polygonaceae, Cistaceae, Venation, Seed anatomy, Clusiaceae, Salicaceae, Nyctaginaceae, Cruciferae, Portulacaceae, Tamaricaceae, Dioncophyllaceae, Chenopodiaceae, Flacourtiaceae Asteropeiaceae, Cucurbitaceae, Theaceae, Caryophyllaceae.

1999: **Vickulin, S. V.** Palaeogene leaf compressions of myrtaceous affinity from Pasekovo, Middle Russian Upland, southern European Russia. Botanical Journal of the Linnean Society of London, 131(1), 65-98. ***With 92 figures***. http://onlinelibrary.wiley.com/doi/10.1111/j.1095-8339.1999.tb01942.x/abstract

Peer Reviewed Contributions to Books:

1991: **Vikulin, S.V.** On the Western and Eastern links of the Paleogene floras of the Russian plain. Pp. 89 – 97. In: (*ed. S.G. Zhilin*), "**Development of the Flora in Kazakhstan and Russian Plain from the Eocene to the Miocene**" (Kryshtofovich Lecture Series N 2). Leningrad, BIN RAS & "Quest Scientific Exchange" [Reports delivered on December 27, 1988 at the Second Kryshtofovich Lecture Series].

Peer Reviewed Journal Articles:

Vikulin et al., **2014**
Sergei V. Vikulin1, Nadia Bystriakova2, Harald Schneider2 and David Jolley3, 2014, Plant macrofossils from Boltysh crater provide a window into early Cenozoic vegetation. In: The Geological Society of America, Special Paper 505, pp. 147 – 169.
First published online2014, doi:10.1130/2014.2505(07)GSA Special Papers , v. 505,
Featured Volume 2014, GSA Special Papers 505, ISBN: Print ISSN 0072-1077

http://books.google.ru/books?id=dqFmBAAAQBAJ&pg=PA147&lpg=PA147&dq=Plant+macrofossils+from+Boltysh+crater+provide+a+window+into+early+Cenozoic+vegetation&source=bl&ots=b8ZjYccgi0&sig=34bkoquL9U7Phuy6N2TIpUiEtCc&hl=ru&sa=X&ei=YaI-VKf9MsHoywOoyIKQBA&ved=0CCIQ6AEwAQ#v=onepage&q=Plant%20macrofossils%20from%20Boltysh%20crater%20provide%20a%20window%20into%20early%20Cenozoic%20vegetation&f=false
http://specialpapers.gsapubs.org/online-first/505

Vikulin, S.V., 2014, Conifer *Doliostrobus* (Doliostrobaceae) from the Paleogene of Ukraine. In Botanicheskiy Zhurnal, Vol. 99, № 5. P. 497–511. ISSN 0006-8136 (in Russian; English summary).

Ma et al., **2013**
Qing-Wen MA, Sergey Vasilyevich **Vikulin**, Cheng-Sen LI, and Yu-Fei WANG, 2013,
Details of compressions of *Glyptostrobus* (Cupressaceae s.l.) from the Eocene of Fushun, NE China.
In: Journal of Systematics and Evolution, Volume 51, Issue 5, pp.601–608, September 2013
Article first published online: 15 AUG 2013; DOI: 10.1111/jse.12035, © 2013 Institute of Botany, **Chinese Academy of Sciences**. (in English).

Vikulin, S.V., and V.P. Morov, **2014,** (in press, in Russian; English summary).
Chamaecyparis belgica – a conifer from the paleocene of the volga-south ural REGION (Gelinden paleofloristic province). In**:** PHYTODIVERSITY OF EASTERN EUROPE, http://www.phytodiveuro.org/#!english/c1gk4, **Abstract**. The new data received indicate similarity of the morphology of decussate shoots of the Paleocene *Chamaecyparis belgica* Saporta et Marion from Volga and South Ural regions to the living species of *Chamaecyparis formosensis* Matsum., endemic of the humid subtropical mountain forests of the island Taiwan. **Key words:** Paleocene, North Peri-Tethys, Cupressaceae, *Chamaecyparis*, shoots.

Vikulin, S.V. 2013. Ferns (Filicinae): *Weichselia* (Matoniaceae) and *Blechnum* (Blechnaceae) in Paleocene-Early Eocene of Boltysh depression (Ukraine, Kirovograd Province). Botanicheskiy zhurnal Vol..98, No. 4.P. 453-467. (in Russian; English summary).

2011: **Vikulin,S.V.** Thermophilic Fagaceae: *Quercus, Lithocarpus* and *Castanopsis* from the Late Eocene of the Southern European Russia. Lectures in memory of A.N. Kryshtofovich, issue 7. St.-Petersburg, Russ. Acad. Sc, Komarov Bot. Inst. pp. 128–147. [*New species: ***Quercus pseudoneriifolia*** Vikulin sp. nov., ***Lithocarpus timensis*** Vikulin sp . nov.]

2011: **Vikulin, S.V.** Fruits of *Arctostaphylos* (Ericaceae) in Oligocene Flora of Kaliningrad Province. Botanicheskiy zhurnal. 96 (7), 863–868.[*New species: ***Arctostaphylos baltica*** Vikulin, sp . nov.]

2011: **Vikulin, S.V.,** Upchurch G.R. and LePage B.A. Genus *Glyptostrobus* (Cupressaceae) in Early Cenozoic of Canadian Arctic. Botanicheskiy zhurnal. 96 (2), 170–182.

2010: **Vikulin, S.V.** Ericaceous fruits (Ericales: Epacridaeae, Ericaceae) in Lower Oligocene Floras of Kaliningrad and Voronezh Provinces. Botanicheskiy zhurnal. 95 (1), 59–69. [*New species: ***Lyonia goniocarpa*** P. Dorof. et **Vikulin**, sp. nov.; ***Pieris baltica*** P. Dorof. et **Vikulin**, sp. nov.; ***Epacridicarpum balticum*** P. Dorof. et **Vikulin**, sp. nov. ; ***Epacridicarpum clavatum*** P. Dorof. et **Vikulin**, sp. nov.; ***Epacridicarpum rugosum*** P. Dorof. et **Vikulin**, sp. nov.]

2010: **Vikulin, S.V.,** Upchurch G.R., LePage B.A. and I.V. Karatygin. **2010**. New finds of Arctic Conifers from Early Cenozoic of North America. Botanicheskiy zhurnal. 95 (7), 897–910. Key words: Epyphillous Fungi *Microthyriaceae* - Fossil Conifers - *Metasequoia* - *Glyptostrobus* - *Taiwania* - *Chamaecyparis* - *Larix*.

2010: **Vikulin S.V.** Symplocaceous fruits (*Symplocaceae*) in Oligocene Flora of Kaliningrad Province. Botanicheskiy zhurnal. 90 (4), 509 – 526. [*New species: ***Symplocos baltica*** P.Dorofeev et **Vikulin** sp. nov.]

2009: Karatygin, I.V., Snigirevskaya N.S and **Vikulin, S.V. 2009.** The most ancient terrestrial lichen ***Winfrenatia reticulata***: a new find and new interpretation. Paleontological Journ. 43(1), 107 – 114. ISSN 0031-0301 http://en.wikipedia.org/wiki/Winfrenatia; http://www.wix.com/sergeyvikulin/viks-travels-and-expeditions_/page-0

2008: **Vikulin S.V.,** Upchurch G.R. and LePage B.A. 2008. New data on leaf micromorphology of arctic conifers of Early Cenozoic of Canadian Arctic. A.N. Kryshtofovich Memorial Readings, 6: Paleofloristics and Systematics of Fossil Plants. St.Petersburg. Komarov Bot.inst. RAS. pp. 110-118. ISBN 978-5-201—11142-4.

2008: **Vikulin S.V.,** Karatygin I.V. **2008**. The species of *Microthyriaceae* (order Dothideales, Ascomycota) from Paleogene of Canadian Arctic. Mycology and Phytopathology. 42(5), 426– 431.

2005: **Vikulin, S.V.** Half centennial of palynological investigations in Pasekovo. Proc.Saratov State university, memorial volume dedicated to Prof. A.A. Chiguryaeva: 8.

2005: **Vickulin, S.V.,** Ben A. LePage, V.Y. Shalisko. ***Taxodium balticum*** (Taxodiaceae) in the Paleogene Flora of Pasekovo (Voronezh region). Botanicheskiy zhurnal**.** 90, (4), 509 – 526.

2004: Qing-Wen Ma, Cheng-Sen Li, Feng-Lan Li and **S.V. Vickulin.** Epidermal structures and stomatal parameters of Chinese endemic ***Glyptostrobus pensilis*** (Taxodiaceae). Bot. Journ. Linn. Soc**.,** 146, 153 – 162.

2003: **Vickulin, S.V.,** Ma Qing-Wen W., Zhilin, S.G., Li Cheng-Sen. **2003.** On cuticular compressions of ***Glyptostrobus europaeus*** (Taxodiaceae) from Kaydagul Formation (Lower Miocene) of the Central Kazakhstan // Acta Bot. Sinica**.** 45 (6), 673 – 680.

2003: **Vickulin, S.V.,** Ben A. LePage and V. Yu. Shalisko**.** Palaeogene leaf compressions of *Taxodium mucronatum* Ten. affinity from Pasekovo, Middle Russian Upland, Southern European, Russia// Scientia-CUCBA. 5, (1 – 2), 63 – 87.

2002: **Vickulin, S.V.** The first find of the genus ***Rhodomyrtophyllum*** (Myrtaceae) in Paleogene of Eastern Europe // Botanicheskiy zhurnal. 87 (9), 27 – 37; 5 photoplates.

See also http://www.microscopy-uk.org.uk/mag/indexmag.html?http://www.microscopy-uk.org.uk/mag/artaug98/augimg3.html

2001: **Vickulin, S. V.,** E. G. Menez, O. V. Yakovleva. Leaf micromorphology of *Halophila* (Hydrocharitaceae). Botanicheskiy zhurnal 86 (7), 80 – 88; 6 photoplates. (*in* **English,** with Russian summary)

2002: **Vickulin, S.V**., Ben A. LePage, V. Y. Shalisko, Servando Carvajal. Early Tertiary ***Taxodium*** Rich. (Taxodiaceae) from Eurasia: comparative morphological and sequence analyses using nearest living relatives from North America // Avances en la investigacion cientifica en el CUCBA – 2002. XIII Semana Nacional de la Investigation Cientifica - Ed. by Servando Carvajal. **Jalisco, Mexico, 2002**. P. 273 – 275. http://www.cucba.udg.mx/

1999a: **Vickulin, S. V.** Palaeogene leaf compressions of myrtaceous affinity from Pasekovo, Middle Russian Upland, southern European Russia. Botanical Journal of the Linnean Society of London, 131(1), 65-98. *With 92 figures*. **Article ID: boj1.1999.0241**, available online at http://www.idealibrary.com

1999b: **Vickulin, S. V.** The Eocene and early Oligocene floras of the Russian Plain and their relation to the palaeofloras of Central Europe. Proceedings 5th European Palaeobotanical and Palynological Conference (June 26 –30. 1998, Krakow) // Acta Palaeobot. Polonica(Krakow). Suppl.2: 429 – 445.

1997: **Vikulin, S.V.,** and Zhilin, S.G. Structurally preserved leafy shoots of *Glyptostrobus* (Taxodiaceae) from Kaydagul Formation of Turgay (Central Kazakhstan). Toporkovskye Readings. Issue III. Rudniy (Kazakhstan). 1997. P. 217- 219.

1995: **Vikulin, S.V.,** Zhilin, S.G., and Potapova, Ya.Yu. Leaf whorls of *Cupressaceae* in the Maastrichtian of the Central Kazakhstan. Paleontological Journal, translation of Russian Paleontol. Zhurn., 29(1A), U.S.edition: Jhon Wiley & Sons, Inc. published July 1995, 185-193. (*in* **English**; with Russian summary)

1995: **Vikulin, S.V**., Zhilin, S.G., Yakovleva, O.V., and Phillips, R.C. Early Oligocene *seagrass zosteroid leaves* from the western part of the Russian Plain. Russian Botan. Zhurn., St.Petersburg, 80(1), 3-10. (*in* **English**, with Russian summary)

1995: **Vickulin, S.V.,** Yakovleva, O.V., and Zhilin, S.G. Xeromorphic features of the leaves of seagrass *Zostera kiewiensis* Schmalh. (Early Oligocen, the Ukraine). Paleontological Journal, translation of Russian Paleontol. Zhurn., 29(2A), U.S.edition: Jhon Wiley & Sons, Inc. published July 1995, 148-158. (*in* **English**, with Russian summary)

1995: **Vikulin, S.V**., and Akhmetiev, M.A. Peltate leaves of the *Macaranga* Thouin (Euphorbiaceae) in the Cenozoic of eastern Sikhote-Alin'. Russian Palaeontol. Zhurn., Moscow, 2: 151-156. (Russian; English summary)

1990: **Vikulin, S.V.** On the western and eastern links of Upper Eocene flora of Tim (middle-Russian upland). Botanicheskiy Zhurnal. 75 (7), 920-928. (Russian, English summary)

1990: **Vikulin, S.V.,** and Proskurin, K.P. The *new species *Epacridicarpum rossicum* (Epacridaceae) from Early Oligocene flora of village Pasekovo, Voronezh district of Russia. Botanicheskiy Zhurnal, 75(2), 215-220. (Russian) [* New species: *Epacridicarpum rossicum* Proskurin et Vikulin]

1987: **Vikulin, S.V.** New oak species* from genus *Erythrobalanus* (Fagaceae) in Early Oligocene flora of village Pasekovo (the south of the middle-Russian upland). Botanicheskiy Zhurnal, 72 (4), 518-522. (Russian) [*New species: *Quercus pseudoalexeevi* Vikulin]

1987: **Vikulin, S.V.** On Early Oligocene flora of Pasekovo (the south of the middle-Russian upland). Botanicheskiy Zhurnal, 72 (2), 146-154. (Russian; English summary)

1987: **Vikulin, S.V.** Paleogene floras of Tim and Pasekovo (south of the middle-Russian upland): Theses of Ph.D., = Cand. Sc. dissertation in biological sciences. Leningrad: Botanical Institute, Academy of Sciences of the USSR. (Russian)

1987: **Vikulin, S.V.** Paleogene flora of Tim and Pasekovo (south of the middle-Russian upland). Ph.D. Theses, Diss. Cand. Biol. Sc., Komarov Bot. Inst., Acad. Sc. USSR. Leningrad. 316p., incl. 100 photo-plates (Russian). *Unpublished.*

1987: **Vikulin, S.V.,** and Bobrov, A.E. * New fossil genus *Protodrynaria* (Polypodiaceae) in Palaeogene flora of Tim (south of the middle-Russian upland). Botanicheskiy Zhurnal, 72(1), 95-98. (Russian) [* New genus & species: *Protodrynaria takhtajanii* Vikulin et A. Bobrov]

1986: **Vikulin, S.V.** * New brown algae *Padina evelinae* Vikulin (Dictyotales) in Early Miocene of Northern Caucasus. Problems of Paleobotany, Ed.: A.L. Takhtajan. 27-29. Leningrad: Nauka. (Russian; English summary)
[*New species: *Padina evelinae* Vikulin]

1986: **Vikulin, S.V.,** and Pneva, G.P. *Nyssa zhilinii* - *new tertiary species from flora of Pasekovo and Aschutas. Botanicheskiy Zhurnal, 71(9), 71(9), 1266-1270. (Russian)
[* New species: *Nyssa zhilinii* Vikulin et Pneva] http://kbd.kew.org/kbd/detailedresult.do?id=72640

1986: Zhilin, S.G., and **Vikulin, S.V**. *Comptonia dryandrifolia* (Myricaceae) in Eocene of the southern part of the middle-Russian upland. Botanicheskiy Zhurnal, 72(4), 146-154. (Russian, English summary)

BOOKS IN ENGLISH TRANSLATED INTO RUSSIAN:

- Lad V. and D. Frawley. **2006.** An Ayurvedic guide to Herbal Medicine/Herbs and Spices. Moscow. Sattwa publishing House. "Ayurveda" Ser. 319 p. (published in Russian) [**Translated** by T. Danilevich and **S. Vikulin**].

- Morningstar A. **2007**. Ayurveda and Polar Therapy. Moscow. Sattwa publishing House. "Ayurveda" Ser. 380 p. Data on nutrition, the use of herbs, exercise, massage, cleaning procedures, human psychology ISBN: 978-5-85296-040-5 (published in Russian) [**Translated** by **S. Vikulin**]

INVITED PAPERS:

Vickulin SV (1998) *Lecture*: The Eocene and Early Oligocene floras of Russian plain and their relation to palaeofloras of Central and Western Europe. // Abstracts and Program of 5-th European Palaeobot. Palynol. Conference, [Jun 27, 9:25, room: E, Chairman: Dr. M. Collinson, Dr. J. Van der Burgh] June 26-30, 1998, Cracow, Poland. P.194.

Vickulin SV (1998) *Poster Session*: Excellent preservation of mummified leaves of *Rhodomyrtophyllum* (Myrtaceae) in the brown coal deposit, 37 Myr at Pasekovo (Middle Russian Upland) and some aspects of evolution of the Angiosperm's leaf epidermal pattern. // Abstracts and Program of 5-th European Palaeobot. Palynol. Conference, [Jun 26- Jun 27, Conference Hall] June 26-30, 1998, Cracow, Poland. P.195.

PRESENTATIONS AT PROFESSIONAL MEETINGS AND PUBLISHED ABSTRACTS (SELECTED MEETINGS)**:**

A) **Sole authorship:**

2014: Conference Paper: **Vikulin, S.V.**

"PALAEOFLORISTIC AND CLIMATIC CHANGES IN THE WESTERN EURASIA (RUSSIAN PLAIN, SOUTH URAL AND KAZAKHSTAN) DURING THE PALEOGENE" for the EPPC2014 in Padova.

Conference: 9th European Palaeobotany Palynology Conference, Dal 26/08/2014 ore 08.00 al 31/08/2014 ore 18.00, At Padova, Italy, Volume: Abstract Book EPPC 2014

2014: Conference Paper: **Vikulin, S.V.**

"NEW INSIGHTS ABOUT 'HASELBACH-COMPLEX' SPECIES IN OLIGOCENE FLORAS OF RUSSIAN PLAIN (PASEKOVO, ZMIEV, SVETLOGORSK)" for the EPPC2014 in Padova.

Conference: 9th European Palaeobotany Palynology Conference, Dal 26/08/2014 ore 08.00 al 31/08/2014 ore 18.00, At Padova, Italy, Volume: Abstract Book EPPC 2014

https://www.researchgate.net/publication/266157155_NEW_INSIGHTS_ABOUT_HASELBACH-COMPLEX_SPECIES_IN_OLIGOCENE_FLORAS_OF_RUSSIAN_PLAIN_%28PASEKOVO_ZMIEV_SVETLOGORSK%29

2014: Conference Paper: **Vikulin, S.V.**

"NEW AND RARE ANGIOSPERM SPECIES FROM THE LATE CRETACEOUS (SENOMANIAN-TURONIAN) FLORAS OF WESTERN EURASIA: TRANS-CAUCASIA AND ARAL AREA OF KAZAKHSTAN " for the EPPC2014 in Padova.

Conference: 9th European Palaeobotany Palynology Conference, Dal 26/08/2014 ore 08.00 al 31/08/2014 ore 18.00, At Padova, Italy, Volume: Abstract Book EPPC 2014

https://www.researchgate.net/publication/266154881_NEW_AND_RARE_ANGIOSPERM_SPECIES_FROM_THE_LATE_CRETACEOUS_%28SENOMANIAN-TURONIAN%29_FLORAS_OF_WESTERN_EURASIA_TRANS-_CAUCASIA_AND_ARAL_AREA_OF_KAZAKHSTAN_

2013. Conference of the Russian Botanical Society

XIII Congress of the Russian Botanical Society, Tolyatti, 16 – 22 September, 2013

Acted as a chairman of the Scientific Section of Palaeobotany, also made an oral presentation **"Major stages of the development of the Tethyan Early Paleogene Flora of Russian Plain,** Abstract book" , P. 254.

2013. An oral presentation:

'Conifer *Doliostrobus* as a key element of the Palaeogene Floras of the Northern Perithetys neighborhoods'. International Conference: "Stratigraphy of the sediment rocks of the Upper Proterozoic and Phanerozoic', 23–26 September, 2014, Kiev (Ukraine), Institute of

Geological Sciences of the Nat. Acad. Sc. Ukraine. Abstract Volume: pp. 33–35 . With photoplate: p. 34.
http://cretaceous.ru/files/images/collections/anthology/stratigraphy_osadochnyh_2013.pdf

2013: Vikulin, S.V., VIII A.N. Kryshtofovich Readings at Saint Petersburg (Russia), 30 Sept – 1 Oct 2013 Poster : **S.V. Vikulin. 'On Cretaceous Element of Paleogene Tethian floras in Western Eurasia'**

2012: Vikulin, S.V. Cretaceous Fern ***Weichselia*** in post-impact pioneer vegetation succession of Boltysh Impact Depression. Where: Russ. Acad. Sc. Geol. Inst. (GIN RAS), Moscow Soc. Nat., All-Russian Palaeontol. Soc. Moscow Branch. Dates: 1st February 2012 - 3rd February 2012 When: 3rd February 2012. Abstr. scientif. reports, presented to the International Palaeobot. Conf. Moscow, GIN RAS, dedicated 100-jubilee V.A. Vakhrameev (1912–1986), P. 19.
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2006: **Vickulin S.V.,** Zh V Burova, L.A. Panova, Ben A Le Page, V.Y. Shalisko. Early Tertiary *Taxodium balticum* from European Russia: evidence of Leaf cuticles, cone scales, seeds and pollen. 7th European Palaeobotany-Palynology Conference. 7EPPC 2OO6. September 6-11. Czech Republic. Prague. **P. 151.**
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2006: **Vickulin, S.V.** Floras of the European Russia at the edge of Eocene and Oligocene: Paleofloristics, Paleoecology, Paleogeography and major stages of their development. 52 session of Paleontol. Soc. of RAS. (3– 7 April 2006, St. Petersburg).

2000: **Vickulin**, S.V. Ultrastructural and micromorphological studies of fossil cuticles from the Tertiary of Russia and some allied territories of the former Soviet Union. In: The Sixth Quadrennial Conference of the Internat. Org. of Paleobot., I.O.P.C. – VI, China.

2000: **Vickulin, S.V.** New data on *Taxodium*, *Sequoia*, *Protosequoia* and *Glyptostrobus* (leaf cuticles, seeds & pollen) from the Upper Eocene of Central Russia. In: The Sixth Quadrennial Conference of the Internat. Org. of Paleobot., I.O.P.C. – VI, China.

2000: **Vickulin, S.V.** Fine structure of the fossil sea-grass from Western Russian Plain, 37 MA, and evolution of Monocots' adaptation to marine environments. In: The Sixth Quadrennial Conference of the Internat. Org. of Paleobot., I.O.P.C. – VI, China.

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1999: **Vickulin, S.V.** *Internet.* **"Chemistry and Life - XXI century":** Science: ***ON TRAILS OF ANCIENT SEA GRASSES*** Scientist: Sergey V. Vikulin, Ph.D. , St. Petersburg , Komarov Institute of Botany, Russian Academy of Sciences Paleobotanists from St. Petersburg have found that ancestry of sea grasses had come to sea from desert 40 million years ago. The study was supported by International Science Foundation, Smithsonian Institution, Washington D. C., and by Linnean Society of London. "Chemistry and Life - XXI century": 107005 Moscow, Lefortovskiy per., 8. (095) 267-5418, Copyright © 1999 "Himiya i Zhizn'". All rights reserved

1998: **Vickulin, S.V**. The Eocene and early Oligocene floras of Russian Plain and their relation to palaeofloras of Central and Western Europe. (English). Problems of Botany at the edge of 20-21 centuries. Abstracts of Presentations at II(X) Conf. Russian Botanical Society (26–29 May 1998 г., Saint-Petersburg, 1998.Vol. 2., pp. 233.

1998: **Vickulin, S.V.** Systematic and morphological implications using SEM for epidermal patterns in *Halophila* Thouars (Hydrocharitaceae). Abstracts. p. 22. In: "Progress in Botany at the edge of 20-21 centuries". Abstract Volume # 1 for the Conference of Russian Botanical Society (26-29 May, 1998, St. Petersburg), (English). 398 p.

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http://micscape.simplenet.com/mag/artaug98/augimg3.html SEM image showing the surface detail of a very remarkable leaf!

1997: **Vickulin, S. V.** How environmental conditions are reflected in the ultrastructure of water adopted xeromorphic monocot from Palaeogene of Western Russian Plain. P. 236-237. In: Proceedings of the International conference on Plant Anatomy and morphology (Dedicated to I. P. Borodin's 150 Anniversary). St. Petersburg. Komarov Botanical Institute of the Russian Academy of Sciences. 1997. 401 p.

1996: **Vikulin, S.V.** New London clay-type flora from the middle-Russian upland, European Russia. The Fifth Quadrennial Conference of the Internat. Org. of Paleobot., I.O.P.C. - V, (June 30-July 5, 1996, Univ. of California, Santa Barbara, CA, USA). Abstracts (prepared by F.Corsettii & B.H.Tiffney), p.106.

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B) **Collaborative authorship:**

2013: **Vikulin S.V.,** N. Bystriakova, H. Schneider. Post impact plant macrofossils from the Boltysh Crater illustrate survival of a Cretaceous fern relict *Weichselia reticulata* into the Paleogene within a refugial geothermal ecosystem // International Conference on Volcanism, Impacts and Mass Extinctions: Causes and Effects. The Natural History Museum, **London**, March 27-29, 2013.

2013: 14th Annual NECLIME Meeting, Saint Petersburg (Russia) from 1st to 4th October 2013. Vikulin, S.V. (BIN RAS, Russia), Grundan, E.L. (VSEGEI, Russia), Engalychev, S.Yu. (VSEGEI, Russia), Tropina, P.D. (BIN RAS, Russia)
Poster: **'Pollen, Fruit-seed and Leaf assemblages from the mid-Miocene of Eastern Paratethys (Yashkul series, 13– 16 MA) of the Southern Ergeni upland, European Russia: Kalmykia.'**

2007: Karatygin I.V., Snigirevskaya N.S. and **S.V. Vikulin**. Two types of symbiosis with participation of Fungi from Early Devonian Ecosystems // XV Congress of European Mycologists, Symposium: Plant-fungus interactions. St. Petersburg September 2007: Delivered Thursday, 20 September, 9:00 by **S.V. Vikulin: multimedia available at** http://vimeo.com/20073764; http://www.flickr.com/photos/sergevik/6281600631/in/photostream

2007: **Vikulin S.V.,** G.R. Upchurch and B.A. LePage. Micromorphology of Arctic Conifers of Early Cenozoic from Canadian Arctic // Int. Conf. dedicated Prof. A.N. Kryshtofovich: 6-th Kryshtofovich Readings, 30 – 31 October, 2007, St.Petersburg, BIN RAS, lab. of Paleobotany. Delivered by **S.V. Vikulin**

2007: Upchurch G.R. and **Vikulin, S.V**. Improved Techniques for the Preparation of Leaves From Extant and Organically Preserved Fossil Seed Plants. Botany 2007, the annual meeting of the Botanical Society of America, USA. http://www.2007.botanyconference.org/engine/search/index.php?func=detail&aid=1515

2007: **Vikulin, S.V**., Upchurch, G.R. and LePage B.A. Cuticle micromorphology of Glyptostrobus from the Early Cenozoic of the Canadian Arctic. Botany 2007, the annual meeting of the Botanical Society of America, USA. http://www.2007.botanyconference.org/engine/search/index.php?func=detail&aid=1510

2006: **Vickulin S.V.,** Burova Zh.V., L.A. Panova, B.A. LePage and V.Yu. Shalisko. Early Tertiary ***Taxodium balticum*** from European Russia: evidence of leaf cuticles, cone scales, seeds and pollen. 7th European Palaeobotany-Palynology Conference. 7EPPC 2OO6. September 6-11. Czech Republic. Prague. **P. 151.** http://www.flickr.com/photos/sergevik/6282133022/; http://www.conference.cz/eppc2006/final_programme.pdf

2003: **Vickulin S.V.,** Burova, Z.V., Panova, L.A., LePage, B.A., Shalisko ,V.Y. Mexican affinities of Early Tertiary *Taxodium* from European Russia evidence of last micromorphology, cone scales and palynology // Avances en la investigacion cientifica en el CUCBA – 2003. XIV Semana Nacional de la Investigation Cientifica

(editor Servando Carvajal). Universidad de Guadalajaara, Jalisco, Mexico. http://www.cucba.udg.mx/

2002: **Vickulin S.V**., Ben A. LePage, V. Y. Shalisko and Servando Carvajal. Early Tertiary ***Taxodium*** Rich. (Taxodiaceae) from Eurasia: comparative morphological and sequence analyses using nearest living relatives from North America // Avances en la investigacion cientifica en el CUCBA – 2002. XIII Semana Nacional de la Investigation Cientifica (editor Servando Carvajal). Universidad de Guadalajaara, Jalisco, Mexico. pp 273 – 275. http://www.cucba.udg.mx/

2001: **Vickulin S.V., O. V. Arbuzova**, D. V. Gromyko, Zh. V. Burova, L. A. Panova. New data on tertiary conifers of Central Russia and adjacent states. Theses of 4th Memorial Readings of A.N. KRYSHTOFOVICH: Paleobotany at the edge of centuries: results and future trends (Saint-Petersburg). St. Petersburg, 2001, pp. 15 – 18.

2001: **Vickulin S. V**., A. F. Topunov, **R.C. Phillips** and O. V. Yakovleva. Occurrence of fossil chlorophyll in anatomically preserved zosteroid seagrass leaves in the mezhigorskaya formation (Upper Eocene/Early Oligocene), Western Part of the Russian Plain. Theses of 4th Memorial Readings of A.N. KRYSHTOFOVICH: Paleobotany at the edge of centuries: results and future trends. St. Petersburg, 2001, pp. 54 – 57.

1998: **Vickulin S. V.,** Yakovleva O. V. Leaf micromorphology and anatomy of palaeogene , 41 Myr *Rhodomyrthophyllum* (*Myrtaceae*) from brown coal flora of Pasekovo, Voronezh oblast'. Problems of Botany at the edge of 20-21I centuries. Abstract Volume # 1. P. 22. (X Meeting of the Russian Botanical Society, 26-29 May, 1998, St. Petersburg)

1997: **Vikulin, S.V.,** & Zhilin, S.G. Structurally preserved leafy shoots of *Glyptostrobus* (*Taxodiaceae*) from Kaydagul Formation of Turgay (Central Kazakhstan). Toporkovskye Readings. Issue. III. Rudniy (Kazakhstan). 1997. P. 217- 219.

1997: Ilyinskaya I.A., Yakovleva O.V. and **Vickulin, S. V.** On the pseudoundulated pattern of anticlinal walls of epidermal cells in representatives of *Juglandaceae* and *Myrtaceae*. P. 65-66. In: Proceedings of the International conference on Plant Anatomy and Morphology (Dedicated to I. P. Borodin' 150 Anniversary). St. Petersburg. Komarov Botanical Institute of the Russian Academy of Sciences. 1997. 401 p.

1996: **Vickulin, S.V.,** and Zhilin, S.G. New find of isolated shoots of *Glyptostrobus (Taxodiaceae)* in the Bolattam beds of Turgay (Kazakhstan). Memorial Conference dedicated to Vsevolod Andreevich VAKHRAMEEV. Geol. Inst. RAS, Moscow & RFFBR (November, 13-14, 1996), Abstracts and Proceedings (Eds. in Chief M.A.Akhmetiev and M.P.Doludenko), p.25 (English / Russian)

1996: **Vickulin, S.V**., Zhilin, S.G., and Yakovleva, O.V. Composition of outer cell wall of fossil plants as an indicator of definite ecological conditions. Paleontology at the boundary of centuries (for 80 years annivesary of the Russian Paleontological Society). 47-th session held in St.Petersburg (29 January-2 February 1996). Abstracts, p.16-17. St.Petersburg, Russian Acad. Sc., Palaeont. Soc., Karpinsky Geol. Inst. (VSEGEI).

1996: **Vickulin, S.V.,** Yakovleva, O.V., and Zhilin, S.G. Why paleogene seagrass *Zostera kiewiensis* (37 MA) retained cell wall ultrastructure characteristic for Terrestrial

xerophytes ? All-Russian Symp. on Enigmatic Fossil Organisms, Paleontol. Inst. RAS, Moscow (November 21-22, 1996). Abstracts. (Russian)

1995: Yakovleva, O.V., **Vikulin, S.V.,** and Zhilin, S.G. Palaeoecological implication of ultrastructural studies on Cretaceous compressions of herbaceous plant from Kazakhstan. Int. Symp. "Ecosystem evolution", (Moscow, 26-30 September 1995): Abstracts. p.98. (Moscow, Paleontol. Inst. RAS, 121p.) (English)

INVITED SEMINARS AND WORKSHOPS:

1998: **Vickulin**, S.V. The evolution of Leaf cuticular pattern of *Gymnosperms* and *Angiosperms* in space and time: an integrative approach. Department of Botany, St. Petersburg Academy of Forestry, November 12, 1998.

1997: **Vickulin**, S.V. Seagrasses: Zosteraceae: Ecology/Paleoecology, Evolution and Biogeography. Joint Seminar of the Departments of Higher Plants (Herbarium), Plant Anatomy and Palaeobotany, Komarov Botanical Institute, Russian Academy of Sciences (St. Petersburg, Russia), December 14, 1997.
1997: **Vickulin, S.V.** Systematic and morphological implications using SEM for epidermal patterns in *Halophila* (Hydrocharitaceae). Department of Botany, Seminar Series: Smithsonian Institution, National Museum of Natural History, Washington, DC 20560. *Friday, 11: 00,* September 26, 1997 *[Waldo Schmitt Room (W218B). For Questions Call: Bob Faden, 202/357-2540].*

QUALIFICATIONS AND SKILLS: • Languages: fluent English, French, Botanical Latin, Native Russian; • Photography: Digital image manipulation and analysis; • Computers: Comfortable user

☑ Nominated as being considered for the inclusion in the editions of **Who's Who in the World ®, December, 2001-04** (Ref. Ms. Eileen McGuinness, Managing Editor, Email: world@renp.com, tel. 1-908-464-6800 ext. 7003)