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ABSTRACT

The course described here offers computer-based instruction (CBI) in the history of the Russian literary language. It is designed to follow an introductory CFI Slavic course. The object of the course is to introduce graduate students in Russian literature to the types of changes that language in general, and Russian literary language in particular, undergoes in time and to discuss how these changes vary over a large territory. The most important single limitation of the CBI system is the speed of presentation of the materials to the student, which prohibits the asking of questions. In addition, the course material itself presents certain limitations in that there are historical gaps in information availability, making programming difficult. The CBI portions of this course were offered for the first time to a class of five students during the spring quarter of 1973. On the final examination students were tested on: (1) subjects that had been lectured on and reinforced by supplementary reading; (2) subjects that had been lectured on and reinforced by CBI material; (3) subjects about which they had only read; and (4) CBI material not reinforced by lectures. The results demonstrated that the material presented in the CBI/lecture combination was absorbed the best, and generally the performance of the students was better than in the previous class, which had depended on lectures and reading alone. As a final assessment, it is concluded that the CBI material is pedagogically sound. Sample portions of the programmed lessons and tests are provided.
(Author/LG)

TOWARD A COMPUTER-BASED COURSE IN THE HISTORY
OF THE RUSSIAN LITERARY LANGUAGE

by

Richard Schupbach

TECHNICAL REPORT NO. 221

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TOWARD A COMPUTER-BASED COURSE IN THE HISTORY
OF THE RUSSIAN LITERARY LANGUAGE¹

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Slavic 212, The History of the Russian Literary Language, is designed as a sequel to Professor Joseph A. Van Campen's computer-based Slavic 211, Introduction to Old Church Slavonic and Early Russian Texts. Computer-based instruction (CBI) portions of Slavic 212 were offered for the first time during the spring quarter of 1973.

1. The Students

Four of the five students enrolled in Slavic 212 had completed Slavic 211 during the previous quarter and were thus familiar with CBI. The fifth had studied Old Church Slavonic (OCS) at another institution and had to familiarize herself with the system during the early part of the course. All five students were primarily interested in Russian literature; as expected, they were somewhat disoriented at first because the subject matter of Slavic 212 has to do more with linguistics than literature, per se. However, as the students progressed, this became less of a problem.

2. Technical Aspects of CBI

This material is covered in considerable detail in Van Campen (1973, pp. 2-8).

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3. The Course

The nature of the CBI system employed and the subject matter of Slavic 212 place certain limitations on what can and what cannot be programmed. Moreover, this year was the instructor's first experience with CBI and thus, somewhat modest goals were set at the outset. For these reasons, CBI was, and, for the present at least, must remain coupled with lectures for the teaching of the history of Russian. However, as I will show below, the role of the instructor as lecturer will be relatively minor in winter quarter 1974, when the revised course is offered.

The object of Slavic 212 is to introduce graduate students in Russian literature to the types of changes that language in general, and the Russian literary language in particular, undergoes in time, and to discuss how these changes vary over a large territory. In order to demonstrate this, I deal with the following subject matter:

1. General theoretical material on the effect of the passage of time on language;
2. Old Russian (OR), by which term is meant spoken and written Russian of the tenth and eleventh centuries;
3. The changes undergone by OR as a result of internal, evolutionary processes;
4. The nature of the interaction of OR and OCS in the formation of the Russian literary language;
5. Analysis of representative texts from various periods up to and including the seventeenth century.

Certain of the areas to be covered are readily amenable to programming for CBI. For example, since the teaching program itself was designed for language instruction, it was most efficient in teaching OR. Moreover, since OCS and OR represent no more than dialects of the same language, I was able to draw on the material in Slavic 211 as a basis for instruction in the morphology of OR. Five such lessons, on the noun, pronoun, adjective, numeral, and verb, were drawn up (see Appendix I). In addition to this material there is an introductory lesson on the differences between the OCS and OR orthographies. The design of these lessons is straightforward and the system is employed, albeit without audio, largely in the manner for which it was designed.

In addition to these lessons, two were composed that concern historical differences between the OR and OCS phonologies and syllable structure. Last, three lessons were drawn up that deal with evolutionary change in OR and Medieval Russian. These five were used to test the efficacy of a language-teaching system for the teaching of language history (see Appendix II).

4. Limitations Intrinsic to the System

One of the major differences between language and historical material is that the former permits the use of short description and query that, in turn, elicit short and completely predictable answers, whereas in teaching history more extensive lecturing is required, and the answers to the questions, far from a single predictable word, or perhaps two, become quite complicated and can be expressed in a variety of ways. With respect to description or lecturing, the most important, single

limitation imposed by the system is the speed of the Model 35 teletype, i.e., the speed of presentation of the material to the student.

At 10 characters per second, expansive lecturing must be kept to an absolute minimum. As a rule of thumb it was decided that, in order to maintain the students' attention, no more than six 70-character lines (less than 90 words) should be presented to the student without involving him directly in the instruction, i.e., without asking him a question. Note that these few words must contain the question asked as well as the lecture material. Within these limits it was found that a substantial portion of material on selected topics having to do with evolutionary change in OR could be successfully programmed. However, material on the complexities of interaction of OCS with OR and general material on the nature of language change could not be programmed due to the speed of the teletypes.

The problem of the students' answers is annoying, but not crucial. The teaching program cannot analyze an answer; it can only match it against the string of characters that the instructor has programmed as being 'correct'. If, for instance, the answer to a question happens to be "14th century" and the student writes "XIVth century" or "14th cent.", etc., the response is treated as wrong. Thus, since all answers must be predetermined, heavy reliance on multiple-choice and true-false responses is required.

3. Limitations Intrinsic to the Material

The limitations imposed by the material itself, particularly given the bounds of the system, are in many cases considerable. First, the

historical record of the language is not complete; not everything of interest or importance was recorded or otherwise preserved. Thus there are factual gaps in many arguments, and, most regrettably, similar gaps are occasionally found in the logic of some historical linguists. In a normal classroom situation these factors create only minor problems; however, in developing material for CPT they can take on crucial importance.

In teaching a language using CBI a basic, deductive logic can be employed that is quite simple, for example:

In grammatical situation X, forms of set Y behave
in a certain Z manner.

Form A belongs to set Y.

Therefore, in situation X, form A behaves in a
Z manner.

Such an argument is convincing, and as we pointed out above, questions based on it elicit short, predictable answers, e.g.,

Q: In what manner does A behave in situation X?

A: Z.

However, when discussing language change, given that a complete argument can be found and that the logic employed in describing the change is unflawed, we find that that change normally occurs in such a way that a given language item will come under a variety of influences in a given period. Which, if any, of these influences will have a lasting effect on the form is often difficult, if at all possible, to predict a priori. Thus, if we are discussing a given process and wish to follow its activity over a large number of forms and a considerable expanse of

time, the number of examples that will show the process in its 'pure' form will tend to be small. Yet this purity of logic and presentation is essential since the student cannot stop the computer and ask a question. The logic and progression of the explanation must not be merely sound; it must be inescapable. Note further that while the present subject matter is linguistic in nature, our students' demesne is literature. Thus forced out of familiar surroundings, they require especially clear exposition while they familiarize themselves with linguistic processes and terminology.

Once a logical and sequential thread of an argument is found, lesser competing processes can be described as corollaries to it. However, the time and effort that go into winnowing large amounts of historical information is considerable (see Appendix III).

The effect of all these limitations, those intrinsic to the system as well as to the material, was to put considerable demands upon the time of the instructor and Professor Van Campen, without whose generous help the material could not have been prepared; furthermore, there were certain elements of the course that simply could not be programmed. Nonetheless, this summer I expect to program the remaining changes that occurred in the Old period (tenth through fifteenth centuries). This represents the greatest share of changes during the written history of the language. Fifteenth-century Russian is surprisingly 'modern' in form, at least in comparison with tenth-century Old.

In addition to this new material, I am organizing a convenient means of presenting texts for analysis on the teletype. With this new material a full two-thirds of Slavic IIE will be computer based. The only remaining

material to be covered independently in the lectures will be the intricacies of the interaction of OCS and OR and general material on the nature of language change in time and space. The demands put upon the instructor's time with this arrangement will be minor.

The implementation of the above assumes no changes in the present system. Given a faster teaching apparatus, most, if not all, of the remaining material could be programmed. But this may not be necessary. The use of comparatively slow hardware, while limiting the programming of certain material, requires a clarity and brevity of exposition and a degree of involvement of the student that is not likely to be achieved where its existence is not made imperative by circumstances. Moreover, even if the entire course could be programmed, a certain amount of the instructor's participation would be required for fielding questions and providing moral support for the students.

6. Student Reaction

The students' reaction to the programmed material and to the course as a whole has been favorable (see Appendix IV). There were some preliminary complaints, but by the third week of the quarter, perhaps not coincidentally after the rains stopped, the students became much more at ease with the lessons and the system and the material. After they finished the CBI section of the course, one 2-hour class section was given over to comments on the programmed instruction. Some very valuable suggestions were made: a glossary of all the terminology employed should be prepared, certain sections of one or two lessons could be made more clear, etc. But it was generally conceded that CBI was very helpful: its degree of

organization was singled out for praise, as was the fact that the material could be gone over, in private, as many times as the student wished.

Student complaints had to do with various subjects: frustration at dealing with a preprogrammed machine instead of a presumably more flexible human being. Occasionally the teletype would type one line on top of another. Students were somewhat put out at having to walk all the way over to the Institute for Mathematical Studies in the Social Sciences, particularly during the rains. While one assumes that the students read the material, think about it, decide how to answer, and then type the answer, apparently this is not always so. The cognitive processes can be short-circuited to the extent that the visual stimulus of the teletype printout is answered not by a thought, but merely by a digital response. In other words, the answer to the question "What is the locative singular ending of the noun XXXXX?" is not "the phoneme/grapheme, Y," but merely "right little finger to the lower row." The suggested solution was to include a quiz at the end of every lesson; this prospect will help maintain the students' full attention throughout the lesson. Last, a rather curious and somewhat disturbing circumstance arose with at least two of the students: rather than learn the material on the teletype, they would take a lesson and answer somewhat carelessly, without complete concentration. The primary object seemed to be merely to get a printout of the lesson material to be studied, not as CBI, but as a text at home. Note, these students performed as well as the others on the final examination.

7. Results of the Final Examination

The results of the final examination (see Appendix V) were encouraging. Reliance on CBI freed me to take up a wide range of subjects that I normally would have little or no time for during the nonprogrammed course. On the final examination the students were tested on subjects that I had lectured on and for which there was supplementary reading, on subjects about which they had only read, on subjects about which I had lectured and for which there was additional CBI material, and last, on CBI material that was not reinforced by lecture material. The students emerged strongest with regard to the lecture/CBI combination; they were also very strong on the material that was presented as CBI alone. The fact that they were able to absorb rather involved linguistic arguments that had been presented on the computer alone was most encouraging. My overall view of their performance is that, all things being equal, they learned more and with greater ease than did last year's class, which depended on my lectures and the reading alone.

The grades awarded for the course were two A's, two A-'s, and one B.

8. Assessment

I was somewhat skeptical of the project when I began. I thought that by working diligently and by coping imaginatively with every problem, I might be able to design the course material in such a way that the students would not lose anything for having been made the subjects of an experiment.

The results exceeded these modest expectations. The rigorous reorganization of the material required for the design of CBI served to

benefit student and instructor as well. But more importantly, student evaluations of the course material and the results of the final examination showed very clearly that the CBI approach to the material thus far programmed is pedagogically sound; it may even represent an improvement over last year's lecture format.

The limitations intrinsic to the subject matter combined with those of the system are such that I do not envision the programming of the entire course and the effective elimination of the instructor. But I think that this is just as well for a variety of reasons:

1. Class meetings with the instructor serve as an important forum for comments, questions, and complaints about the CBI.

2. The forced reliance of the system on precomposed answers allows the student no exercise of creativity; knowledge comes to be almost a conditioned reflex. It is only in the interchange of a discussion group that the material may be expanded upon, treated in an 'organic' manner.

3. The scope of the CBI material is inflexible; what is in the lesson is what is to be learned--no more, no less. Nonetheless, the basic, factual core of the course remains the same from year to year. It is this material that has been programmed already, or will be finished this summer. In addition to this, the exercises involving text analysis should not require change. The existence of this basic corpus and its availability to the student on an on-call basis will serve to drastically cut the amount of time required of the instructor of the course.

Finally, another bonus gained from the programming of Old Church Slavonic and part of the History of the Russian Literary Language is the establishment of a 'course library' that can be consulted by students.

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Experience has taught us that, regardless of mode of teaching, students quickly forget OCS and OR; extensive review is necessary before the Ph.D. general examinations in this area. CBI in OCS and OR will be available to these students largely at their convenience for review. This material by itself should be an effective preparation for the students in this area. We will soon have an opportunity to test this supposition, since four of our graduate students are preparing to take general examinations in the near future. All four have requested use of the CBI material in Slavic 211 and 212 for review.

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APPENDIX I

Sample portions of Lessons 755 and 758,
pronoun and verb morphology, respectively.
Note: The student types the answer, here
provided, in the spaces set off by underline
marks.

BEG 755
TE THE PRONOUN
THE SING
WE HAVE ALREADY NOTED THE DIFFERENCE BETWEEN THE OCS
AND ORUS NOM IST SING PRN. OCS HAS
A3b
LR THE ORUS FORM HAS
TE A, INITIAL 'A'
E, PROTHETIC JOD
SR
TE _E_
SR THE ORUS IST SING PRN IS
TE _IA3b_
NOTE, IA WAS ALSO COMMON.

IN THE DAT-LOC OF THE 2ND PERS SING AND THE REFLEXIVE
PRN, WHERE OCS HAD 'E', ORUS HAD 'O'.
GIVE THE ORUS FORM OF OCS TEBb
LR _TOBb_
TE GIVE THE ORUS DAT-LOC REFLEX PRN
LR _COBb_
TE NOTE, THE OCS FORMS ALSO OCCURRED IN ORUS.

IF OCS HAD 'E' FOR ORUS 'O' AS ABOVE AND IF THE OCS
FORM OF THE DAT-LOC OF THE 1ST PERS SING PRN WAS MBHb,
THEN WE CONCLUDE THAT THE ORUS FORM WAS
LR _MBHb_
TE NOTE, MBHb WAS ALSO COMMON.

ORUS FORMS ARE ATTESTED IN WHICH THE FINAL b OF THE
DAT-LOC OCCURRED ALSO IN THE ACC-GEN. THUS TEBb,
CEBb COULD BE
A, DAT LOC INST
E, DAT LOC ACC GEN
SR _E_
TE GIVEN THE ABSENSE OF NASALS IN ORUS, LIST THE
FORMS OF OCS
LR MA _MA_
TE HOWEVER, EVEN THOUGH A IS WRITTEN, THE ORUS V IS
NOT NASAL. IT IS A FRONTED
SR _A_
TE GIVE THE ORUS FORMS OF OCS
LR CA _CA_
LR TA _TA_
LR MBHOIA _MBHOIO_
LR COBOIA _COBOIO_

TE THE PARADIGM OF THE 1ST AND 2ND SING PRN IS -- FILL IN THE 2ND PERS

		1ST PERS	2ND PERS
LE	NOM	IA3Ъ, IA	_TЪI_
LE	ACC	MEHE, MA	_TEBE_, _TA_
LE	GEN	MEHE	_TEBE_
LE	LOC	MЪHB	_TOBЪ_
LE	INST	MЪHOIO	_TOBOIO_
LE	DAT	MЪHB, MI	_TOBЪ_, _TI_
RST	.		

TE THE 1ST PLUR OCS HAS DATIVE

LR _HAMЪ_

TE 2ND PERS

LR _BAMЪ_

TE ORUS HAS THESE, BUT MЪI, BЪI RE ALSO POSS.

THUS ORUS MЪI CAN BE

A, DAT

E, DAT ACC

SR _E_

TE IF ORUS BЪI CAN BE DAT AND CC, THEN ALL ITS POSSIBILITIES ARE

A, DAT ACC

E, NOM DAT ACC

SR _E_

TE THE REMAINING FORMS ARE THE SAME IN BOTH DIAL'S.

THEREFORE, THE PARADIGM OF THE 1ST AND 2ND PERS PLUR PRN IS -- FILL IN THE 2ND PERS

		1ST PERS	2ND PERS
LE	NOM	MЪI	_RЪI_
LE	ACC	HACЪ, HЪI	_RACЪ_, _RЪI_
LE	GEN	HACЪ	_RACЪ_
LE	LOC	HACЪ	_BACЪ_
LE	INST	HAMI	_RAMI_
LE	DAT	HAMЪ, HЪI	_BAMЪ_, _BЪI_

TE THE 1ST AND 2ND DUAL IS -- FILL IN THE 2ND PERS

		1ST PERS	2ND PERS
LE	NOM	BЪ	_RA_
LE	ACC	HA	_BA_
LE	G-L	HAIO	_BAIO_
LE	I-D	HAMA	_BAMA_
RST	.		

THE LESSON CONTINUES

RUS758

BEG
TE

758
THE VERB
THE ORUS AND OCS VERBS ARE SIMILAR. THEY
HAVE THE SAME TENSES, PARTICIPLES, MOODS, ETC. BUT
AS ELSEWHERE, THERE IS SOME DIFFERENCE IN THE FORM
THAT CERTAIN ENDINGS TAKE. WE ALREADY KNOW THAT
OCS А CORRESPONDS TO ORUS

LR
TE
LR
TE

OY
ON THE PHONOLOGICAL LEVEL OCS А EQUALS ORUS
A
HOWEVER, IN THE NOUN AND ADJ, ON THE MORPHOLOGICAL LEVEL
OCS А CAN GIVE ORUS

LR
TE

b
IN THE VERB, HOWEVER, OCS А ALWAYS GIVES ORUS А.

REMEMBER ALSO THE REFLEXES OF ORIGINAL C PLUS JOD.
THUS WHERE OCS HAS ВКАА, ORUS HAS

LR
TE

ВН_КОУ_
GIVE THE ORUS FORM OF OCS ХОКАА

LR
LR
TE

ХОМОУ
МОЩИ _МОЧИ_
THE Ш IN OCS МШАТЪ REPRESENTS

LR
TE
LR
TE

Ш
WHILE IN ORUS МШОУТЬ IT REPRESENTS

ШЧ
IN ADDITION TO THESE CORRESPONDENCES,
IN THE PRES TENSE

LR
LR
LR
LR
RST

WHERE OCS HAS -ТЬ IN THE 3RD PERS ORUS
HAS -ТЬ. GIVE THE ORUS FORM OF OCS

МЕСЕТЪ _МЕСЕТЪ_
ВИДИТЪ _ВИДИТЪ_
МЕСАТЪ _МЕСОУТЬ_
ВИДАТЪ _ВИДАТЪ_

TE

THE ONLY OTHER ESSENTIAL DIFFERENCE IN THE PRES
IS IN THE DUAL. WHERE OCS HAS SEPARATE 2ND AND 3RD
PERS. ORUS DOES NOT. E.G.. OCS HAS 2ND PERS

LR
LE
TE

БА БЕА_ЕТА_
AND THIRD PERS ОНЪ БЕА_ЕТЕ_
BUT ORUS HAS THE 2ND PERS FORM IN BOTH THE 2ND AND
THIRD PERS. THUS WE HAVE ORUS

LR
LR

БА БЕА_ЕТА_
ОНА БЕА_ЕТА_

TE

THE REMAINING FORMS ARE THE SAME IN BOTH DIAL'S, THUS
THE PRES TENSE БЕА- IS

LR

SING
IA3Ъ БЕА_ОУ_

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LR ТЫ БЕА_ЕШИ_
LR ОНЪ БЕА_ЕТЪ_

TE DUAL
LR ВЪ БЕА_ЕВЪ_
LR ВА БЕА_ЕТА_
LR ОНА БЕА_ЕТА_

TE PLUR
LR МЫ БЕА_ЕМЪ_
LR ВЫ БЕА_ЕТЕ_
LR ОНИ БЕА_ΟΥТЬ_

TE NOTE, THE THIRD SING AND PLUR ALSO OCCURRED
WITHOUT FINAL -ТЬ. THUS, THEY, MASC, ARE
LEADING COULD BE AS ABOVE OR
LR _ОНИ БЕАΟΥ_
TE _ОНИ БЕАЕ_
LR _ОНИ БЕАЕ_
TE GIVEN NO UNFORESEEN DIFFERENCES BETWEEN ORUS AND OCS
OTHER TENSES, ОНЪ БЕАЕ COULD BE
A, PRES OR IMPERF
E, PRES OR AORIST

SR
RST

TE THE 1ST SING OF AN I-STEM, E.G., МОЛТИ IS
LR _МОЛЮ_
TE THIRD PLUR IS
LR _МОЛАТЬ_
TE THUS WE HAVE

LR SING
LR ІАЗЪ МОЛ_ІО_
LR ТЫ МОЛ_ИШИ_
LR ОНО МОЛ_ИТЬ_

TE DUAL
LR ВЪ МОЛ_ИВЪ_
LR ВА МОЛ_ИТА_
LR ОНЪ МОЛ_ИТА_

TE PLUR
LR МЫ МОЛ_ИМЪ_
LR ВЫ МОЛ_ИТЕ_
LR ОНЫ МОЛ_АТЬ_

TE WHAT DO YOU SUPPOSE THE THIRD SING OF ААТИ IS IN ORUS?
TST І
LR _ДАСТЬ_

BLK
TE
FIN
TE

• WE HAVE -ТЬ IN THE MATHEMATICS ALSO.

• THE REMAINING FORMS ARE THE SAME IN BOTH DIALS.
CONJUGATE ДАТЬ IN URUS

LR SING
LR ИАЭЪ _ДАМЪ_
LR ТЪИ _ДАСИ_
LR ОНО _ДАТЬ_

IE DUAL
LR БЪ _ДАВЪ_
LR ВА _ДАСТА_
LR ОНА _ДАСТА_

TE PLUR
LR МЪИ _ДАМЪ_
LR БЪИ _ДАТЕ_
LR ОНА _ДАДАТЬ_
RST •

THE LESSON CONTINUES

APPENDIX II

The content of the eleven lessons programmed is:

751. Orthography, the differences between the OCS and OR phonologies and the respective writing systems.
752. Pleophony, the concept of rising sonority and the difference between its effect on so-called 'tort' groups in OR and OCS where metathesis occurs.
753. Syllabic synharmonism, the causes of the various 'palatalizations' and their different effects in OR and OCS.
754. The noun, OR noun morphology as opposed to that of OCS.
755. The pronoun, OR pronoun morphology as opposed to that of OCS.
756. The adjective, OR adjectival and participial morphology as opposed to that of OCS.
757. The numeral, OR numeral morphology and syntax as opposed to that of OCS.
758. The verb, OR verb morphology as opposed to that of OCS.
759. The fall of the 'jers', the loss of the reduced vowels and its effects upon OR phonology and morphology.
760. The loss of the dual, the effects of the loss of the singular/dual/plural grammatical distinction upon OR morphology and numeral syntax.
761. Changes in the declension system, the change from a declension system based on a variety of declension types to a system based on grammatical gender; the rise of the category of animation.

APPENDIX III

Sample portions of Lessons 759 and 760, the fall of the 'jers' and the loss of the dual, respectively. Note the considerable increase in the amount of narration and multiple-choice, true-false, etc., questions as opposed to the material in Lessons 755 and 758 (Appendix I).

RUS759

BEG
TE

759
IN THE EARLIEST OCS TEXTS THE 'JERS' OR REDUCED VOWELS
ǰ, ǂ WERE
A, CLEARLY DISTINGUISHED
E, LOST IN CERTAIN POSITIONS

SR
TE

WHEREAS, IN EARLIEST ORUS ǰ AND ǂ WERE RETAINED
EVEN AT WORD-END, E.G., THE M-N INST SING AND
DAT PLUR ENDED IN A
A, VOWEL
E, CONSONANT

SR
TE

EVENTUALLY THE JERS FELL IN ORUS AS THEY HAD IN OCS.
THIS HAPPENED IN DIFFERENT ORUS DIAL'S AT DIFFERENT
TIMES. IT SEEMS TO HAVE STARTED IN THE SOUTH IN
THE XITH CENT AND TO HAVE SPREAD THROUGHOUT ORUS
BY THE XIIIITH CENT.

SR
TE

T OR ɔ, NOT ALL JERS 'FELL' OR CEASED TO BE PRN-CD.
SOME BECAME FULL V'S.
IF E IS TO O AS ǂ IS TO ǰ, AND IF STRONG ǂ
GAVE E, THEN STRONG ǰ GAVE

SR
TE

RULE FOR VOCALIZATION VERSUS LOSS OF THE JERS.
GIVEN A SUCCESSION OF SYLLABLES CONTAINING JERS,
THEN, COUNTING FROM THE RIGHT, EVERY ODD-NUMBERED JER
IS WEAK, EVERY EVEN JER IS STRONG. ANY JER IN A SYLL
PRECEDING A SYLL WITH A FULL V IS WEAK. STRESSED JERS
ARE STRONG.

SR
LE
SR
LE
TE

TYPE X AFTER EACH WEAK AND C AFTER EACH STRONG JER.
ǂǂ_X_ǂǂ_C_ǂǂ_X_HO
THIS GIVES _ǂǂEBHO_.
Cǂ_X_HA
THIS GIVES _CHA_.
WEAK JERS WERE NOT PRN'D, THUS THEY WERE NORMALLY
NOT WRITTEN. HOWEVER, WEAK ǂ WAS RETAINED ORTHOGRAPHICALLY
AT WORD-END.

LE
LE
LE
TE

THUS Cǂǂǂ GIVES _COHǂ_.
ǂǂǂ GIVES _ǂOǂǂ_.
ǂǂǂ GIVES _ǂEBǂ_, ETC.
WEAK ǂ WAS WRITTEN IN CERTAIN POSITIONS. ALWAYS AT WORD-END.

LE THUS, ДЪНЬ GIVES _ДЕНЬ_
 LE КЪНАЗЪ GIVES _КНАЗЪ_
 TE WEAK Ъ WAS RETAINED BETWEEN TWO C'S WHERE THE LEFTMOST
 OF THE C'S REMAINED SHARPENED.
 LE СОУДЬБА GIVES _СОУДЬБА_
 LE BUT ДЪНЕ GIVES _ДНЕ_
 TE Ъ WAS RETAINED, ALTHOUGH IT WAS WEAK, WHERE IT OCCURRED
 BEFORE A V. THUS PRE-FALL ,СВИНЬІА BECAME

LR _СВИНЬІА_
 TE NOTE, THE RETENTION OF Ъ IS PARTICULARLY
 COMMON AFTER Л.

LE THUS КОЛОКОЛЬНИКЪ GIVES _КОЛОКОЛЬНИКЪ_,
 TE BOTH JERS ARE WEAK, I. E., NOT PRM'CD, BUT WERE
 WRITTEN, NONETHELESS.

RST .
 TE THERE ARE EXCEPTIONS TO THE VOCALIZATION RULE. SOME
 INVOLVE ANALOGY WITH OTHER FORMS. E.G., ДЪСКА GIVES

LR _ДСКА_
 TE AND EVENTUALLY ТСКА, ЧКА WITH THE DEVOICING OF 'D'
 BEFORE VOICELESS 'S'.

HOWEVER, STRESSED JERS ARE STRONG. THUS, IN THE ACC SING
 OF ДЪСКА THE STRESS MOVES TO THE 1ST SYLL, CF., БОДЪ, BO'ДУ.

TE THUS, THE JER IN ДЪСКОУ WAS
 А, STRONG
 Е, WEAK

SR _А_
 LE ДЪСКОУ DEVELOPS TO _ДОСКОУ_.
 TE WHEREAS, ASSUMING NO DEVOICING OF THE 'D', THE DAT SING
 LE DEVELOPED TO _ДСКЪ_.
 TE WITH EVENTUAL DEVOICING IT DEVELOPED TO

LR _СКЪ_
 TE WITH DEVOICING THE LOC PLUR BECAME

LR _СКАХЪ_
 TE ON THE OTHER HAND, THE PRE-FALL GEN PLUR IS

LR _ДСКЪ_
 LE WHICH GIVES POST-FALL _ДОСКЪ_.
 TE A PARADIGM WITH CHANGING STEMS WOULD NOT DO, SO
 THE STEM OF THE ACC SING WAS GENERALIZED FOR THE WHOLE
 PARADIGM.

LR LIKEWISE, THE PLACE NAME СМОЛЬНЬСКЪ SHOULD HAVE GIVEN
 TE _СМОЛНЕСКЪ_

TE BUT IT TOOK ITS STEM FROM THE OBLIQUE CASE-FORMS, I.E.,
 THE DAT SING WAS СМОЛЬНЬСКОУ WHICH GAVE

LR _СМОЛЕНСКОУ_
 TE WHICH SERVED AS THE MODEL FOR THE EVENTUAL NOM SING, I.E.,
 LR _СМОЛЕНСКЪ_

RST
TE

* GIVEN THAT MRUS ДЕРЖАТЬ IS FROM ORUS ДЪРЖАТИ AND
БЛОХА FROM БЛЪХА, WE CAN CONCLUDE THAT JERS
IN SO-CALLED 'ТЪРТ' GROUPS WERE
A, ALWAYS STRONG
E, COULD BE STRONG OR WEAK

SR
LE
TE

A
THUS, WHILE ТЪРГЪ GIVES ТОРГЪ,
THE GEN SING DEVELOPS PROPERLY TO

LR
TE
LR
TE

ТОРГА
AS OPPOSED TO THE GEN SING OF СЪНЪ WHICH GIVES
СНА
THUS, THE JER IN 'JER PLUS LIQUID' OR VICE-VERSA IS STRONG
AS OPPOSED TO СЪНЪ, СНА WHERE THE JER IS WEAK IN THE GEN.
GIVE THE POST-FALL FORM OF THE FOLLOWING

LR
LR
LR
LR
LR
LR

ТЪРГОВАТИ ТОРГОВАТИ
ПЪРВЪ ПЕРВЪ
ВЪРХЪ ВЕРХЪ
СЛЪЗА СЛЕЗА
ВЪЛКЪ ВОЛКЪ
ВЪЛКА ВОЛКА

RST
TE

* THE FALL OF JERS HAD SEVERAL MAJOR, LONG-REACHING
EFFECTS ON THE HISTORY OF THE LANGUAGE.
PRE-FALL ЛЪСЪ CONSISTS OF HOW MANY SYLLABLES?

SR
TE
SR
TE
SR
TE

2
ITS POST-FALL FORM HAS HOW MANY SYLLABLES?

1
THAT SYLLABLE IS OPEN OR CLOSED, O OR U?

U
ASSUMING THAT THE FALL DID NOT ALTER THE PITCH
OF THE C'S, THEN Л HAS HIGH OR LOW PITCH,
Ч OR Л?

SR
TE
SR
TE

Ч
C HAS HIGH OR LOW PITCH, Ч OR Л?

Л
THUS, POST-FALL ЛЪСЪ
A, CONFORMS TO
E, VIOLATES
SYLLABIC SYNHARMONISM

SR
TE

Е
POST-FALL ЛЕСЪ CONSISTS OF ONE
A, OPEN
E, CLOSED SYLLABLE

SR
TE

Е
THE LAW OF OPEN SYLLABLES AND SYLLABIC SYNHARMONISM CEASE
TO BE ACTIVE WITH THE FALL OF THE JERS IN ORUS, I.E.,
BY THE END OF THE

A, XIII C.
E, XIV C.

SR
RST

А
.

TE

THUS, XIV-CENT ORUS PHONOLOGY IS RADICALLY DIFFERENT FROM
THAT OF THE XTH CENT AND STRIKINGLY SIMILAR TO THAT OF
MRUS, SINCE AMONG OTHER THINGS, PHONETIC SHARPENING
BECAME PHONEMIC.

BEG
TE

76S

IN XITH CENT ORUS AND OCS THE DUAL WAS ALREADY STARTING TO WEAKEN, SPORADIC MISTAKES BEGIN TO APPEAR IN THE PRONOUN. OTHER DUAL FORMS WERE WRITTEN PROPERLY AT THAT TIME, E.G., БЫИ НЕБЕСЬМАΙΑ ЧЛОБЬКА ІЕСТА. WHERE THERE IS A MISTAKE IN THE WORD

LR
TE
LR
TE

BYI
WHICH SHOULD BE

BA
AS THE USAGE OF THE DUAL BECAME MORE RESTRICTED ITS FUNCTION WAS PREEMPTED BY THE
A, SING
E, PLUR

SR
TE

E
WHILE THE DUAL IS ACTIVE, THE MAJOR DISTINCTIONS WITHIN THE CATEGORY OF NUMBER ARE THREE-FOLD 'ONE', 'TWO', 'MORE THAN TWO', WHICH, WITH THE LOSS OF THE DUAL, WILL BECOME
A, 'ONE', 'MORE THAN ONE'
E, 'ONE', 'ALL'

SR
TE

A
I.E., SING-PLUR.
CERTAIN NOUNS, BY VIRTUE OF THEIR MEANING, TEND TO OCCUR MORE OFTEN IN ONE NUMBER THAN OTHERS.
OF THE FOLLOWING FORMS, WHICH IS MOST LIKELY TO OCCUR IN DISCOURSE?

A, SING ПОГЪ 'HORN', OF AN ANIMAL
E, DUAL ПОГА
O, PLUR ПОЗН

SR
TE

E
BECAUSE THE HORNS OF AN ANIMAL TEND TO COME IN PAIRS.
SAME QUESTION

A, НЕБО 'HEAVEN'
E, НЕБЕСЬ
O, НЕБЕКА

SR
TE

A
SAME QUESTION
A, ОБЬУА 'SHEEP'
E, ОБЬУИ
O, ОБЬУЪ

SR
TE

O
IN GENERAL THE DUAL WILL HAVE OCCURRED MOST COMMONLY WITH PAIRED OBJECTS. AS IT WEAKENS, WE CAN EXPECT IT TO BE USED LESS AND LESS IN GENERAL AND LESS AND LESS CORRECTLY WITH

A, НЕБО, ОБЬУ
E, ПОГЪ

SR
TE

A
THUS, THE FORM OF 'HORN', 'EYE', 'SHOULDER', ETC., MOST FREQUENTLY ASSOCIATED WITH THE CONCEPT 'MORE THAN

ONE' BECOMES
A, THE DUAL
E, THE PLUR

SR
RST
TE

-A-

AS THE DUAL IS TAKEN OVER SEMANTICALLY BY THE PLUR,
THE GRAMMATICAL DISTINCTION BETWEEN DUAL AND PLUR BECOMES
BLURRED, SINCE THEY BOTH DESIGNATE 'MORE THAN ONE', AND
WITH PAIRED OBJECTS BECOMES OBLITERATED. THIS CAN LEAD TO
A, REINSTITUTION OF THE DUAL NUMBER
E, USE OF THE DUAL FOR THE PLUR WITH PAIRED OBJECTS

SR
TE

JUDGING FROM MRUS ГЛАЗА', ПОГА', ET AL., THE DUAL ENDING
THAT SPREAD IS THE MASC

A, NOM-ACC
E, GEN-LOC
O, DAT-INST

SR
TE

NOTE, THAT THIS IS NOT THE CASE IN ALL SLAVIC LNGS, IN
SERBO-CROATIAN THE DAT-INST ENDING SPREAD.

RST
TE

THE SPREAD OF THE MASC DUAL N-A ENDING WAS REINFORCED BY THE
FOLLOWING

IN THE HARD FEM'S THE GEN SING WAS IN

LR
TE
LR
TE

-I-
THE NOM PLUR WAS

-I-
HOWEVER, THERE WAS A DIFFERENCE IN THESE ENDINGS WITH
WORDS LIKE БОРА, МЕНА.

A, STRESS
E, PHONETIC SHARPENING

SR
TE
LR
TE
LR
TE

-A-
IN THE SOFT FEM'S THE GEN SING WAS

-B-
THE NOM PLUR WAS

-B-
HOWEVER, WITH WORDS SUCH AS ЗЕМЛЯ THERE WAS, AGAIN,
A DIFFERENCE IN STRESS.

IN THE 2-FOLD HARD NEUT'S THE GEN SING WAS IN

LR
TE
LR
TE
SR
TE

-A-
THE NOM PLUR WAS

-A-
THE SOFT NEUT'S HAD GEN SING, NOM PLUR

-IA-
BUT IN WORDS SUCH AS ЦЕЛО, ПОЛЕ, ET AL. THERE WAS
A DIFFERENCE IN STRESS, ЦЕЛА', ЦЕ'ЛА, ПО'ЛИА, ПОЛИА'.
T OR F, THE SAME IS TRUE OF HARD MASC'S

SR
TE

-O-
THIS GEN SING AND NOM PLUR ARE THE SAME EXCEPT FOR STRESS

WITH CERTAIN FEM AND NEUT NOUNS, BUT NOT FOR HARD MASC'S
BECAUSE HARD MASC GEN SING IS IN

LR
TE
LR
TE

-_A_
BUT THE NOM PLUR IS IN

-_N_
HOWEVER, THE NOM-ACC DUAL ENDING OF HARD MASC'S IS A
STRESSED

LR
TE

-_A_
THUS, IF THAT SAME NOUN HAD AN UNSTRESSED GEN SING
ENDING, THE SPREAD OF THE N-A DUAL WOULD CAUSE IT TO CORRESPOND
TO THE ENDING-STRESS SHIFT OF THE OTHER DECL-TYPES, I.E.,
GEN SING AND NOM PLUR DIFFER ONLY IN

A, STRESS
E, HARD VERSUS SHARPED FINAL C

SR
TE

-_A_
THUS, OLD DUAL N-A STRESSED A SPREAD TO NON-PAIRED OBJECTS,
LIKE ГОЛОДЪ, BUT ONLY WHERE THE GEN SING IS UNSTRESSED
NOTE, EXCEPTIONS ARE RARE, E.G.

A, ПЫКАБА
E, ГЛАЗА

SR

-_A_

These four questions pertain to your own interest and participation in the course:

Answer
(Make no response if you feel the question is inappropriate)

1. Did you enjoy this course?
(1) Much more than average (2) More than average (3) Average (4) Less than average ()
2. Was the course presented at the appropriate intellectual level for you?
(1) Too difficult (2) Appropriate (3) Too easy (2)
3. How hard did you work in this course?
(1) Extremely hard (2) Hard (3) Average (4) Not very hard (1)
4. Do you feel that the material presented was worth learning?
(1) Definitely (2) Yes (3) Maybe (4) No (1)

Rate the lectures on the following:

5. Were clear and well organized:
(1) Outstanding (2) Good (3) Fair (4) Poor (3)
6. Were intellectually stimulating:
(1) Outstanding (2) Good (3) Fair (4) Poor (2)
7. In comparison with all other lecturers you have had at Stanford, how would you rate this lecturer?
(1) Outstanding (2) Good (3) Fair (4) Poor (2)

Rate the course assignments: (Papers, problem-sets, readings)

8. Were they valuable in their own right?
(1) Outstanding (2) Good (3) Fair (4) Poor (1)
9. Were they well integrated with the lectures?
(1) Outstanding (2) Good (3) Fair (4) Poor (1)

Slavic 212

Please identify: _____
Course Department and Number

Schubach

Instructor's Name

Lectures

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These four questions pertain to your own interest and participation in the course:

Answer
(Make no response if you feel the question is inappropriate)

- 1. Did you enjoy this course?
(1) Much more than average (2) More than average (3) Average (4) Less than average (3)

- 2. Was the course presented at the appropriate intellectual level for you?
(1) Too difficult (2) Appropriate (3) Too easy (3)

- 3. How hard did you work in this course?
(1) Extremely hard (2) Hard (3) Average (4) Not very hard (1)

- 4. Do you feel that the material presented was worth learning?
(1) Definitely (2) Yes (3) Maybe (4) No (2)

Rate the lectures on the following:

- 5. Were clear and well organized:
(1) Outstanding (2) Good (3) Fair (4) Poor (2)

- 6. Were intellectually stimulating:
(1) Outstanding (2) Good (3) Fair (4) Poor (2)

- 7. In comparison with all other lecturers you have had at Stanford, how would you rate this lecturer?
(1) Outstanding (2) Good (3) Fair (4) Poor (2)

Rate the course assignments: (Papers, problem-sets, readings)

- 8. Were they valuable in their own right?
(1) Outstanding (2) Good (3) Fair (4) Poor (3)

- 9. Were they well integrated with the lectures?
(1) Outstanding (2) Good (3) Fair (4) Poor (2)

Please identify: Slavic 212
Course Department and Number

Prof. Schupbach
Instructor's Name

Lectures

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These four questions pertain to your own interest and participation in the course:

Answer
(Make no response if you feel the question is inappropriate)

- 1. Did you enjoy this course?
(1) Much more than average (2) More than average (3) Average (4) Less than average (3)
- 2. Was the course presented at the appropriate intellectual level for you?
(1) Too difficult (2) Appropriate (3) Too easy *at the beginning* (1)
- 3. How hard did you work in this course?
(1) Extremely hard (2) Hard (3) Average (4) Not very hard (1)
- 4. Do you feel that the material presented was worth learning?
(1) Definitely (2) Yes (3) Maybe (4) No (1)

Rate the lectures on the following:

- 5. Were clear and well organized:
(1) Outstanding (2) Good (3) Fair (4) Poor (3)
- 6. Were intellectually stimulating:
(1) Outstanding (2) Good (3) Fair (4) Poor (2)
- 7. In comparison with all other lecturers you have had at Stanford, how would you rate this lecturer?
(1) Outstanding (2) Good (3) Fair (4) Poor (2)

Rate the course assignments: (Papers, problem-sets, readings)

- 8. Were they valuable in their own right?
(1) outstanding (2) Good (3) Fair (4) Poor (2)
- 9. Were they well integrated with the lectures?
(1) Outstanding (2) Good (3) Fair (4) Poor *lecture ges,* ()

Please identify: SI 212
Course Department and Number

prof. Solie piazak
Instructor's Name

Lectures

BEST COPY AVAILABLE

These four questions pertain to your own interest and participation in the course:

Answer
(Make no response if you feel the question is inappropriate)

1. Did you enjoy this course?
(1) Much more than average (2) More than average (3) Average (4) Less than average (3)
2. Was the course presented at the appropriate intellectual level for you?
(1) Too difficult (2) Appropriate (3) Too easy (2)
3. How hard did you work in this course?
(1) Extremely hard (2) Hard (3) Average (4) Not very hard (2)
4. Do you feel that the material presented was worth learning?
(1) Definitely (2) Yes (3) Maybe (4) No (1)

Rate the lectures on the following:

5. Were clear and well organized:
(1) Outstanding (2) Good (3) Fair (4) Poor (2)
6. Were intellectually stimulating:
(1) Outstanding (2) Good (3) Fair (4) Poor (1)
7. In comparison with all other lecturers you have had at Stanford, how would you rate this lecturer?
(1) Outstanding (2) Good (3) Fair (4) Poor (2)

Rate the course assignments: (Papers, problem-sets, readings)

8. Were they valuable in their own right?
(1) Outstanding (2) Good (3) Fair (4) Poor (2)
9. Were they well integrated with the lectures?
(1) Outstanding (2) Good (3) Fair (4) Poor (2)

Please identify: Slavics
Course Department and Number

Schumpbach
Instructor's Name

Lectures

BEST COPY AVAILABLE

These four questions pertain to your own interest and participation in the course:

Answer
(Make no response if you feel the question is inappropriate)

1. Did you enjoy this course?
(1) Much more than average (2) More than average (3) Average (4) Less than average (3)
2. Was the course presented at the appropriate intellectual level for you?
(1) Too difficult (2) Appropriate (3) Too easy (2)
3. How hard did you work in this course?
(1) Extremely hard (2) Hard (3) Average (4) Not very hard (2)
4. Do you feel that the material presented was worth learning?
(1) Definitely (2) Yes (3) Maybe (4) No (1)

Rate the lectures on the following:

5. Were clear and well organized:
(1) Outstanding (2) Good (3) Fair (4) Poor (3)
6. Were intellectually stimulating:
(1) Outstanding (2) Good (3) Fair (4) Poor (2)
7. In comparison with all other lecturers you have had at Stanford, how would you rate this lecturer?
(1) Outstanding (2) Good (3) Fair (4) Poor (2)

Rate the course assignments: (Papers, problem-sets, readings)

8. Were they valuable in their own right?
(1) Outstanding (2) Good (3) Fair (4) Poor (1)
9. Were they well integrated with the lectures?
(1) Outstanding (2) Good (3) Fair (4) Poor (3)

Please identify: History of Russian Language
Course Department and Number

Schupbach
Instructor's Name

Final Examination

- I. $\frac{1}{2}$ hour:
Briefly describe Henning Andersen's theory of the acquisition of language by one generation from another.
- II. (choice of one) Material from Levin, $\frac{1}{2}$ hour:
1. Sketch the relationship of the "деловой" and/or "канцелярский язык" to Church Slavonic during the Muscovite period. Give the historical reasons for the nature of their interaction.
 2. What arguments does Levin bring forth against the notion that the Russian literary language is historically, natively Russian?
 3. Discuss the types and degrees of assimilation of the various types of Old Church Slavonicisms by the Russians in the Kievan period. Give examples.
- III. Answer two of the following, $\frac{1}{2}$ hour each:
1. Discuss the nature of the interaction of the o-, jo- and i-stems. What major phonological and morphological events and/or processes played a role in their interaction?
 2. What is the relationship of metathesis and pleophony to the principle of "rising sonority"? Give examples.
 3. What caused the palatalization of consonants, and how did it become phonemic in East Slavic?
 4. Sketch the major phonological and morphological differences between OCS and Old Russian.
 5. Indicate those forms in the following passage which are historically (in form, if not fact) Old Church Slavonicisms. Comment on the mixture of native East Slavic forms with the latter. Identify the passage according to epoch, genre, and style.

И помню море пред грозой:
 Как я завидовал волнам,
 Бегущим бурной чередой
 С любовью лечь к ее ногам!
 Как я желал тогда с волнами
 Коснуться милых ног устами!
 Нет, никогда среди пылких дней
 Кипищей младости моей
 Я не желал с таким мученьем
 Лобзать уста младых Армад,
 Иль розы пламенных лавит,
 Вь персях, полные томленьем:
 Нет, никогда порыв страстей
 Так не терзал души моей!

- IV. (One hour) Translate the following passage. Identify it as to period and genre. Comment on the underlined forms. .

В си же пре-
 мена бысть знаменье на западѣ, звѣзда превелна, лучь иуши
 акы кровавы, въходящи с вечера по заходѣ солнечивмъ, и пре-
 бысть за 7 дний. Се же проявише не на добро, посемь бо была
 усобицѣ многи и нашествие поганыхъ на Русьскую землю, си бо
 звѣзда бѣ акы кровава, проливающи кровю пролитю. В си же
 времена бысть дѣтица инерьженъ в Сѣтомъ^{*} сего же дѣтица вы-
волокоша рыболове въ неводѣ, сгоже полоровахомъ¹ до вечера,
 и намы инергона и в воду; бишеть бо ещѣ: на дщи ему срамни
 удове², много нестѣ казати срама ради.

* a body of water

1 to watch

2 members, characters

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