THE COMPARATIVE ANALYSIS OF SCIENTIFIC AND SOCIAL REPRESENTATIONS OF CONSCIOUSNESS AND THE UNCONSCIOUS

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The article deals with the research into social notions of such integral psychic phenomena as consciousness and the unconscious. The concept of social notions, proposed by S. Moscovici in 1961, was used. This research was carried out in several stages. Firstly, scientific definitions of consciousness and the unconscious were analyzed. Secondly, dictionaries of the Russian language were studied. Then an empirical study of social notions of consciousness and the unconscious was conducted. As many as 240 students of Perm State University took part in the study as subjects. The core-periphery structure of scientific and social representations of consciousness and the unconscious that is typical of modern Russian culture and common to such of its carriers as active researchers in psychology and students was reconstructed. Finally, notions of consciousness were compared to the notions of the unconscious. Studying the notions of psychic phenomena makes it possible to reconstruct the idea of the psychic that is typical of non-professionals. The process of constructing social notions can be explained by the "dynamic model" proposed in the study by S. Moscovici and M. Hewstone (1984).

Keywords: social representations, scientific representations, consciousness, the unconscious, "dynamic model" of S. Moscovici and M. Hewstone, the core-periphery structure of scientific and social representations, stages of objectivation.

According to many today's researchers, the concept of social representations, proposed by S. Moscovici in 1961, has made a significant contribution to the development of social psychology (Emelyanova, 2001; Brushlinsky, 1998; Shikhirev, 1999; etc.). The number of studies undertaken in the frames of this approach grows every year, so does the range of issues. As such, various phenomena may be the object of representation: from psychoanalysis (Moscovici, 1961) to democracy, political leadership, and social responsibility (Emelyanova, 2006).

The subject of our research is the social representations of such integral psychic phenomena as consciousness and the unconscious. The choice of the above subject is not incidental. During the past decades, the number of studies concerned with psychics and psychological phenomena by non-psychologists has notably increased. For example, the following subjects have been studied: children's representations of the soul (Subbotsky, 1985; Savina, 1995), implicit personality theories (Kruglanski, 2007), *implicit theories* of intelligence (Parkhomenko, 2003), mental representations of emotions (Podprugina, 2003), the "theory of mind" has been developed (Carroll, Apperly, & Riggs, 2007; Sobel, 2007).

The choice of consciousness and the unconscious as an object of representations was conditioned by the following reasons. First of all, the idea of consciousness has been systematically developed in psychology, beginning with its set-up and separation as an independent branch of knowledge. The idea of the unconscious came to be studied by psychologists later. The introduction of the term "the unconscious" as a scientific category is associated with the works of S. Freud. Besides, the Russian culture has featured an absolutely special approach to psychoanalysis. As such, due to ideological reasons, starting from the 1930s, psychoanalysis and consequently the very concept of "the unconscious" were banned, and free discussion and evaluation of works by S. Freud and his followers became possible only in the 1990s (Levchenko, 2008). Therefore, the idea of consciousness actively developing from the mid 19th century both in domestic and foreign psychology, will for the purpose of this analysis be referred to as a "relatively old" concept. The idea of the unconscious, which appeared in science later and remained prohibited in the Russian psychology of the Soviet period (which stood in the way of its systematic development), will be referred to as a "relatively young" concept. It should be noted that the "age" of idea is estimated with reference to its existence in a certain socio-cultural context, primarily, in the Russian one. Secondly, consciousness and the unconscious are in a fundamental opposition to one another, which simplifies the process of comparison of representations of these phenomena.

Therefore, the present study aims to identify the social representations of consciousness and the unconscious available today in Russia (as exemplified by the representations formed among the students) and describe the external process of their construction, i.e. changes facing the aggregate of the given scientific ideas after they become a common sense property.

This research was carried out in several stages. During stage one, scientific definitions of consciousness and the unconscious were selected. These definitions were analyzed during stage two. Russian dictionaries were studied during stage three. Stage four focused on the empirical study of social representations of consciousness and the unconscious. At stage five, findings of the empirical study were processed using the qualitative and quantitative analysis methods. During stage six, a coreperiphery system of scientific and social representations of consciousness and the unconscious was built. Further, at stage seven, we analyzed social representations of consciousness and the unconscious with reference to the phases undergone by a scientific theory in the course of its transformation into a social representation. And finally, representations of consciousness were compared to the representations of the unconscious.

Let us consider the above mentioned stages in a more detailed way. The first and second stages were set to identify the combination of scientific ideas of consciousness and the unconscious. During the first stage, proceeding from the reviews concerned with the issues of consciousness (Akopov, 2004; 2007) and the unconscious (Asmolov, 2002) and also from the analysis of the chapters devoted to the theoretical study of these phenomena in a number of dissertations (Vakhrusheva, 2003; Sitnikov, 2003; Shevchenko, 2003), we compiled a list of recognized leading researchers in the field. Some of these scientists' works in the field, as well as psychological dictionaries, provided definitions of the examined phenomena. The following criteria were used to select the texts containing a definition: 1. The sentence (or several sentences) must include phrases like "consciousness (the unconscious) is understood as ..., "consciousness (the unconscious) is ..., "consciousness (the unconscious) is regarded as ...", etc.; 2. The paragraph must constitute the author's complete idea; 3. If more than one definition of consciousness (the unconscious) has been given by the same author, we opted for the definition that has been quoted in works more frequently (reviewing the definitions of consciousness (the unconscious)). During the second stage, we carried out the content analysis of definitions of each phenomenon. A segmental, issue-related count of references to the categories was used, according to which only the first appearance of a category in the unit of context was registered, whereas any repeated references to the category in the given unit of context were disregarded. The scale of categories was not set initially and was developed in accordance with the content of the selected definitions. A word or syntactically indivisible collocation served as an indicator of category. The distribution of empirical indicators among categories was controlled by the expert evaluation method.

A survey of scientific psychological literature dealing with the issue of consciousness revealed the traditional for the psychological knowledge polysemy of this notion. During the first stage, having analyzed a number of monographs by some researchers of consciousness (Agafonov, 2003; Allakhverdov, 2000; Bekhterev, 1999; Ganzen, 1984; James, 2001; Jaspers, 2001; Leontiev, 1975; Lomov, 1984; Platonov, 1972; Rubinstein, 1957; Wundt, 2002; Zinchenko, 2001; etc.) and several psychological dictionaries (Meshcheriakov & Zinchenko, 2003; Reber, 2000; Davydov et al., 1983; etc.), we came to a conclusion that while some authors distinctly articulate the definition of consciousness (Bekhterev, 1999; Zinchenko, 2001; Leontiev, 1975; etc.), others seem to avoid such clarity in every possible way (Vasilyuk, 2007; Luria, 1979; Subbotsky, 1999). For the second stage of analysis, a total of 41 texts containing distinctly articulated definitions were selected based on the criteria specified above (37 definitions given by the authors + 4 dictionary clauses). It should be noted that the selected definitions of consciousness cover the time period of 1888 (Bekhterey, 1999) to 2009 (Abulkhanova, 2009). Out of the above mentioned texts, 32 belong to domestic scientists and 9 are the products by foreign authors.

Upon the completion of content analysis of the selected texts, the following ideas were identified as more frequently used in the definition of consciousness: 1) consciousness as reflection, as learning; 2) consciousness as an attitude and experience; 3) consciousness as regulation; 4) consciousness as awareness (including self-awareness); 5) consciousness as an integration of inner mental life; 6) consciousness as the top level of mental evolution associated with historical and cultural origin and related to speech; 7) consciousness as a function of something; 8) consciousness as part of psychics. Apart from that, a series of rarely encountered ideas were identified. Those, for instance, included such ideas as "philosophical category" (Meshcheriakov & Zinchenko, 2003), "accompaniment and provision of a personality's existence with consciousness"

(Abulkhanova, 2009), "those aspects of mental life that attract a person's attention" (Reber, 2000), "occurs in the morning upon awakening from sleeping without dreams and lasts the whole day until falling asleep again or until you develop a condition, which might be called 'unconscious,' e.g., a coma or death" (Searle, 1980), and some others.

Let us pass on to the representations of the unconscious. The difficulty that we faced in the course of studying scientific literature was the limited number of definitions of this term that was found (the total of 17). The time during which the texts containing the selected definitions were published, covered the period of 1921 to 2007. During the content analysis, all definitions were split into negative and positive. The above division dates back to the old times in the history of psychology. D.N. Uznadze stated that the definition of the unconscious in psychoanalysis had a negative nature and proposed the concept of "set" as its positive definition (as cited in Asmolov, 2002, pp. 31-32). Negative definitions of the unconscious were associated with the denial of characteristics of consciousness (apprehendability, controllability, etc.). The latter group included the overwhelming majority of the analyzed texts (over 80%). As this kind of research did not make it possible to reconstruct the profound characteristic of the unconscious, we also analyzed the psychological concepts of the examined phenomenon, in which the essence of the given phenomenon was disclosed through the description of its content (Agafonov, 2003; Asmolov, 2002; Freud, 2006; Grof, 2001; Herbart (cited in Zhdan, 2002); Jung, 1994; Leibniz, 1982; Simonov, 2001; Uznadze, 1966). The above analysis helped identify the phenomena that in the author's mind belonged to the area of the unconscious, thus making up for the lack of full-fledged definitions or their undue laconism, like: strong feelings and desires disapproved by the society; low intensity perceptions; memory storage; primitive needs and instincts; archetypes; dream; non-conscious regulators of action performance; reflexes; nonconscious components of creative activity; birth-associated memories; mystical feelings.

Then, from studying the aggregate of scientific ideas related to consciousness and the unconscious, we went on to examine the corresponding social representations. During the third stage, the central core elements of social representations were identified. This was done by studying the details presented in modern definition dictionaries and associative dictionaries of the Russian language. Thus, the S.I. Ozhegov's

dictionary (Ozhegov, 1989) offers the following interpretation of "consciousness":

- 1. An ability to reproduce reality in thinking; a psychic activity as a reflection of reality.
- 2. A condition of an individual in healthy mind and memory, an ability to be aware of his behaviour and feelings.
 - 3. A thought, a feeling, a clear understanding of something.
- 4. The same as responsibility: an ability to properly sort out reality and identify one's behavior (Ozhegov, 1989).

The term "the unconscious" in Russian does not have the status of a noun and is used as an adjective. Modern definition dictionaries (Ozhegov, 1989; The Russian definition dictionary supplied with etymological data, 2007) provide the following meanings of this word:

- 1. Accompanied by the loss of consciousness;
- 2. instinctive, unaccountable.

Let us compare the lexical meanings of the words "consciousness" and "the unconscious" with the scientific ideas of consciousness and the unconscious. By comparing the scientific ideas of "consciousness" with the lexical meanings of this word, we noticed both similarities and differences. The similarity was found with regard to the following ideas: 1) consciousness as reflection and learning; 2) consciousness as awareness (including self-awareness). The dictionary gives two meanings: "a condition of an individual in healthy mind and memory" and "clear understanding of something" which we did not find in scientific definitions of consciousness.

The lexical meanings of the word "unconscious" comply with the scientific ideas of the unconscious identified in the course of the text analysis. The meanings presented in the definition dictionaries belong to the group of "negative definitions" and show similarity with the following scientific ideas of the unconscious: "something that is not apprehended," "something that is not controlled."

During the forth stage, an empirical study of the social representations of consciousness and the unconscious was conducted. This study was assisted by first, second and third year students from various faculties of Perm State University: a total of 240 students ranging from 17 to 22 years old. The number of male and female subjects was about the same. The subjects were not supposed to specialize in psychology and philosophy. The study took place before the students were exposed to a course in general psychology.

As this work was performed in the traditions of S. Moscovici's school, the qualitative research methodology was selected for the study. Data collection methods included an association experiment, the drawing method and the method of definition. Beside the representations of consciousness and the unconscious, the students' representations of the soul and psychics were studied as well. Introducing the latter in the study enabled us to regard the representations of consciousness and the unconscious not in isolation but in the context of integral concepts used to display the psychic. In other words, we made an attempt to look at "consciousness" and "the unconscious" from the perspective of the idea of the psychic the subjects had.

The fifth stage included the processing of the data obtained during the empirical study. The data on the association experiment were processed with the use of both the prototypical analysis of P. Verges (Bovina & Dragulskaya, 2006) and the content analysis. The first technique makes it possible to reconstruct the core-periphery structure of social representations. The second method of data processing is a qualitative and quantitative method identifying the key concepts (ideas) and calculating the frequency of their use. Content analysis was also used to process the drawings and definitions obtained from the subjects. We developed the systems of categories of content-and-analytical study of the empirical material, common for the representations of consciousness, the unconscious, the soul and psychics.

As a result of the analysis, we identified an aggregate of the ideas characteristic of social representations of consciousness and the unconscious. The next stage of our study consisted in building the coreperiphery structure of representations. As noted earlier, prototypical analysis is designed specifically for this purpose. As far as the data of content analysis of associations, drawings and definitions is concerned, a procedure similar to prototypical analysis was applied to these data. The same procedure was applied to the results of content analysis of scientific definitions. The key point of this procedure, which was borrowed from P. Verges' prototypical analysis, is that the criterion for the identification of the central core, the potential change area and the peripheral system itself is the frequency of the element, in our case, the category of content analysis. The resulting core-periphery structure of the scientific and social representations is shown in Table 1. The graphic image of the findings is shown in Figures 1 and 2.

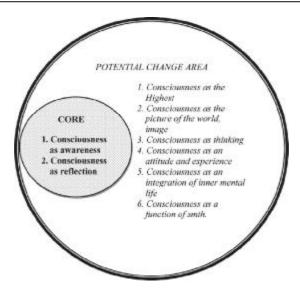


Figure 1. Scientific representations of consciousness



Figure 2. Social representations of consciousness

The core-periphery structure of scientific and social representations of consciousness (frequency is shown in per cent)

			m)	(irequency is snown in per cent)	 	ı per cent)				
	Scientific representations	tions			Sc	Social representations	ons			
	citimetal afitacias		Associatio	Association experiment		Drawing		Method of definitions	ions	Definition
	Scientific delimitions	SUG	Prototypical analysis			Content analysis	sis			dictionaries
	Idea	%	Idea	Idea	%	Idea	%	Idea	%	
	Consciousness as awareness	31,7	Mind, thinking*	Mind, thinking 56.3 Human being 51.7	56.3	Human being	51.7	Mind, thinking	54.6	Awareness
E	Reflection	24,4	Brain	Brain	25.4	Positive definition	33.9	Awareness	26.7	Reflection
СОК				Human being	20.4	Behaviour and activity	24.6			Adequacy
						Brain	23.3			Understanding
										Mind, thinking
YEEA	Consciousness as an attitude and experi-	17,1	Understanding	Other cognitive phenomena	18.8	18.8 Upper level of psychics	15.0	Understanding	18.3	
HVNCE V	Consciousness as integration of inner 17,1 mental life	17,1	Human being	Understanding	15.8			Other cognitive phenomena	16.3	
ľ C	The highest	14,6	Philosophy	Awareness	13.8			Human being	15.8	
AITN	The picture of the world, image	14,6	The opposite of the unconscious	Control	13.3			Difficult to define 15.0	15.0	
TTC	Thinking	14,6	Part of psychics					Control	13.8	
)d	Consciousness as a function of smth.	14,6	Awareness							

11.3	9.58	8.75	8.33	7.5	7.5	6.25	5.42			
Emotional phenomena	Motivation	Development	Adequacy	Brain	Property of living matter	Behaviour and activity	Inner world			
9,2	4,6									
12.5 Localization in one's head	Awareness									
12.5	12.5	12.1	10.8	10.4	10.0	8.75	7.08	7.08	6.67	5.83
Knowledge	Philosophy	Behaviour and activity	Property of living matter	Emotional phenomena	Adequacy	Reflection	Localization in one's head	Personality	Synonym of "soul"	Part of psychics
12,2 Emotional phenomena	Property of living matter	7,32 Synonym of "soul"	Behaviour and activity	Adequacy	Knowledge					
12,2	12,2	7,32	7,32	7,32	7,32	7,32	4,88	4,88		
Others	Consciousness as regulation	Knowledge	Characteristic of human psychics	Socio-historical origin	Consciousness as part of psychics	Association with speech	"Brain function" 4,88 (empirical indicator)	Philosophy		
				ЕКХ	ЕКІЬН	d				

* In order to compile a compact and easily readable text, ideas forming ordinary perceptions of consciousness were reduced to key words and phrases (See Dictionary in Appendix). The compliance between the key word (phrase) and the original idea was controlled by expert evaluation method.

The resulting findings prove that the core of the scientific representations of consciousness is more compact and contains only two ideas: consciousness as awareness and consciousness as reflection. The core of social representations includes a larger number of ideas (nine), which are quite diverse. Both core ideas of the scientific representations are in a transformed way present in the core of social representations.

The area of potential changes of both scientific and social representations includes 6-7 ideas of each type, two of which are similar: consciousness as "the higher" (the top level of psychic evolution (Myasischev, 2001) and consciousness as the picture of the world. Two ideas from the potential change area of *scientific* representations – consciousness as the thinking and consciousness as a (brain) function – are present in the core of the *social* representations of consciousness. In other words, the frequency of the above ideas in collective consciousness is higher than that in scientific definitions.

The results of the comparison of the central core (Fig. 3) and the potential change area (Fig. 4) of scientific and social representations of consciousness are shown in Table 2.

Therefore, one can state that the potential area of changes of *scientific* representations contains a full range of ideas that have nothing in common with those contained in the core and the potential change area of *social* representations of consciousness. These ideas are: consciousness as an attitude and experience, and consciousness as an integration of inner mental life.

Besides, potential change area of *social* representations includes a number of ideas that are not present in the core and the potential change area of *scientific* representations. These ideas are: consciousness as an understanding of something, consciousness manifests itself in behaviour and activity, consciousness ensures human adequacy, consciousness receives a positive evaluation, consciousness as the opposite of the unconscious, and a difficulty in defining consciousness.

The analysis of ideas contained in the core and the potential change area of *social* representations of consciousness shows the dominance of the phenomena describing the learning activity of an individual, which supports the findings by M.S. Sheveleva (2003) and E.A. Shteinmets (2000).

The comparison of two types of representations makes it evident that *scientific* ideas are characterized with a higher abstractiveness, general-

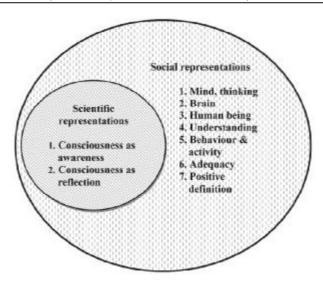


Figure 3. Graphic comparison of core areas of scientific and social representations of consciousness

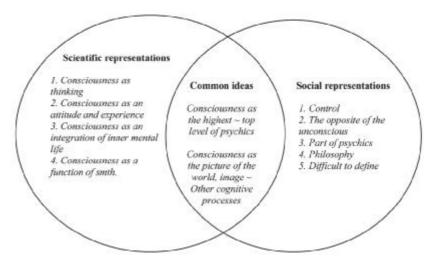


Figure 4. Graphic comparison of potential change areas of scientific and social representations of consciousness

Comparison of the central core and the potential change area of scientific and social representations of consciousness

		Definition dictionaries		%		Awareness	Reflection	Mind, thinking						
			_	Idea		26.7		54.6						
	ıs	Method of definitions	orion minos to	Idea	ions	Awareness		Mind, thinking						
88	ntatior			%	sentat				15.0	tions				
and social representations of consciousness	Social representations	Drawing		Idea	Ideas that are common for both scientific and social representations				Top level of psychics	Ideas that are mostly typical of scientific representations				
4110IIIS			sis	%	cientif	13.8		56.3		ıl of sci				
ociai representa		Association experiment	Content analysis	Idea	ommon for both s	Awareness		Mind, thinking		are mostly typica				
and so	ations	suo	Prototypical analysis	Idea	Ideas that are c	Awareness		Mind, thinking		Ideas that				
	resenta	definiti		%		31.7	24.4	14.6	14.6		17.1	17.1	14.6	14.6
	Scientific representations	Scientific definitions		Idea		Consciousness as awareness	Reflection	Thinking	The highest		Consciousness as atti- tude and experience	Consciousness as integration of inner mental life	The picture of the world, image	Consciousness as a function of smth.

	Definition dictionaries		%			Under- standing						Adequacy				
	De		Idea			18.3	15.8	16.3	13.8							15,0
sı	Method of definitions		Idea			Understanding	Human being	Other cognitive phenomena	Control							Difficulty with defining
ntatio			%	suc	23.3		51.7			33.9	24,6					
Social representations	Drawing		Idea	Ideas that are mostly typical of social representations	Brain		Human being			Positive definition 33.9	Behaviour and activity					
		sis	%	cal of s	25.4	15.8	20.4	18.8	13.3							
	Association experiment	Content analysis	Idea	at are mostly typi	Brain	Understanding	Human being	Other cognitive phenomena	Control							
ations	ions	Prototypical analysis	Idea	Ideas th	Brain	Understanding	Human being						The opposite of the	Part of psychics	Philosophy	
present	definiti		%													
Scientific representations	Scientific definitions		Idea													

Ideas in the core area are in bold type; ideas in potential change area are in italics

The core-periphery structure of scientific and social representations of the unconscious

Γ	П	uc	- #		4	f lal										
		Definition	dictiona- ries	%	26.3 Thought-less	Lack of control										
		ons		Idea	26.3	25.0	18.8				12.1	16.7	14.6	12.5	11.3	11.3
		Method of definitions Definition		%	The thoughtless	The thoughtless	Instincts				Motivation	Spontaneous re- actions, reflexes, automatisms	Connection with consciousness	Difficulty with defining	Emotional phenomena	Instability of the term
	tions	ы	alysis	Idea	43,6	30,0										
	Social representations	Drawing	Content analysis	Idea	Negative definition	Human being										
	Social			%	28.3	22.5	22.5	21.3	19.6	18.3	13.3	11.7	11.3			
		Association experiment		Idea	Instincts	The thoughtless	Spontaneous re- actions, reflexes, automatisms	Emotional phe- nomena	Dream	Psychoanalysis	Difficult to define	Illness	The opposite of Lack of volitional consciousness			
		Associati	Prototypical analysis	%	55.6 Psychoanalysis	Spontaneous reactions, reflexes, automatisms					The thoughtless	Misunder- standing	The opposite of consciousness			
		about	the s	Idea	55.6	44.4	44.4	33.3	33.3		22.2	22.2	22.2	22.2	22.2	
	Scientific representations	Scientific ideas about	the content of the unconscious	Idea	Strong feelings and desires disapproved by society	Memory storage	Low intensity senses	Primitive needs and instincts	Archetypes		Non-conscious regulators of activity perfor- mance	Dream	Memories of traumatic events	Set	Norms of behaviour	
,	ific re		itions	%	82.4						17.7	16.7	16.7			
	Scient		Scientific definitions	Idea	Smth. that is not appre- hended*						Smth. that is not controlled	Other nega- tive defini- tions	Positive definitions			
						ВE	ОЭ				REA	HANGE A	VI C	ILNE	ITOq	

							_	_	-		_
10.8	10.0	10.0	7.50	7.50	29.9	5.83	5.83	5.83	5.83	5.00	4.58
Dream	Breach of public 7.50 broblic 6,3 Misunderstanding 10.0 standards standards	Human being	Inadequacy	Intuition	Hidden from consciousness	Lack of volitional control	Negative definition 5.83	Illness	Stress	Forgotten memo- ries	Psychoanalysis
10,8	6,3	5,4	5,4								
Instability of term	Breach of public standards	Lower level of psychics	Motiva- tion								
10.4	7.50	7.08	6.67	6.67	6.67	5.83	5.42	5.42	4.58		
Misunderstand- 10.4 Instability 10,8 of term	Breach of public standards	Intuition	Motivation	Forgotten memories		Negative defini- tion	The thoughtless 5.42	Death	Connection with consciousness		
Intuition											
11.1	11.1	11.1	11.1								
Non-conscious components of 11.1 creative activity	Reflexes	Birth-associated memories	Mystical feel- ings								
			יבעו	ייוגע	14						
			ГЕВУ	RIPH	bв						

In order to compile a compact and easily readable text, ideas forming ordinary perceptions of the unconscious were reduced to key words and phrases (See Dictionary in Appendix). The compliance between the key word (phrase) and the original idea was controlled by expert evaluation method.

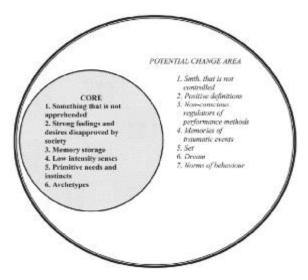


Figure 5. Scientific representations of the unconscious



Figure 6. Social representations of the unconscious

ity, accuracy of wording, and laconism, whereas *social* representations are characterized by concreteness, clarity, a larger freedom in the use of terms, and by the introduction of ideas originating from various areas of knowledge. The latter may be explained by the difference in functions between scientific and social representations. Scientific representations target at searching the essence, the truth. Social representations aim at helping the human being in his or her everyday life.

Let us turn to the representations of **the unconscious**. In a similar way, let us look at the core-periphery structures of scientific and social representations of the unconscious first in Table 3 and then in a graphic form.

Findings of the analysis reveal that the core of *scientific* representations of the unconscious contains fewer ideas and is more compact than the core of *social* representations. At the same time, one can find a number of ideas that are common for both scientific and the social representations of the unconscious. As follows from the Table and the Figures, the unconscious is defined in the negative way both in scientific and social representations. Notably, social representations describe the unconscious through the negation of ideas used in defining consciousness. The comparison of the central core and the potential change area of scientific and social representations of the unconscious is represented in Figure 7 and Table 4.

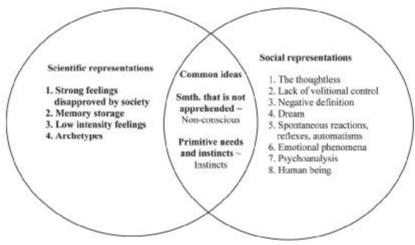


Figure 7. The graphic comparison of the core areas of scientific and social representations of the unconscious

The comparison of central core and potential change area of scientific and social representations of the unconscious

		alla socia	and social representations of the unconscious	TO SITO	anc ancom				
Scientific				9	Social representations	fatione			
representations	S			00	ciai icpiescii	tations			
Scientific definitions and repre-	nd repre-	Associatic	Association experiment						D. £ 1:-
sentations of the content of the	nt of the	Prototypical analysis	Content analysis	lysis	Drawing	ью	Method of definitions	nitions	Dennition dic- tionaries
Idea	%	Idea	Idea	%	Idea	%	Idea	Idea	%
	Definit	Definition of the unconscious: Common ideas for scientific and social representations	ous: Common id	leas for	scientific and	social	representations		
Smth. that is not ap- prehended	82.4	The opposite of					The non-con-	26,3	The non-con-
							Connection		
							with conscious-	14,6	
							ness		
Smth. that is not controlled	17.7		Lack of volitional control	11.3					Lack of volitional control
Other negative definitions	16.7	The thoughtless		22.5			The thoughtless	25.0	
		Misunderstanding							
					Negative definition	43.6			
	Dei	Definition of the unconscious: ideas mostly typical of scientific representations	nscious: ideas mo	ostly typ	ical of scient	ific rep	resentations		
Positive definitions	16.7								
	Cont	Content of the unconscious: ideas common for scientific and social representations	us: ideas commo	on for sc	ientific and	ocial r	epresentations		
Primitive needs and instincts	33.3		Instincts	28.3			Instincts	18.8	
Dream	22.2		Dream	19.6					

										16,7	11,3	12,1				12,5		11,3
esentations									entations	Spontaneous reactions, reflexes, au- tomatisms	Emotional phenomena	Motivation				Difficulty with defining		Instability of the term
fic repr									l repres				tations		30.0			
cal of scienti									pical of socia				cial represen		Human being			
stly typi									ostly ty	22.5	21.3		al of so	18.3		13.3	11.7	
cious: ideas mo									nscious: ideas m	Spontaneous re- actions, reflexes, automatisms	Emotional phenomena		Others: ideas mostly typical of social representations	Psychoanalysis		Difficulty with defining	Illness	
Content of the unconscious: ideas mostly typical of scientific representations									Content of the unconscious: ideas mostly typical of social representations	Spontaneous reactions, reflexes, automatisms			Others: id	Psychoanalysis				
ŭ	55.6	44.4	44.4	33.3	22.2	22.2	22.2	22.2										
	Strong feelings and desires disapproved by society	Memory storage	Low intensity senses	Archetypes	Non-conscious regula- tors of activity perfor- mance methods	Memories of traumatic events	Set	Norms of behaviour										

A comparison of the central core and the potential change area of scientific and social representations of the unconscious shows that ideas that are common for the core and the potential change area of scientific and social representations include instincts, dreams and automatisms in the sphere of the unconscious.

The idea of reflexes as elements of the sphere of the unconscious comes out of the periphery area of *scientific* representations of the unconscious and enters the core of *social* representations. The above fact proves that the level of "separability" of ideas (the term introduced by T.P. Emelyanova, 2006) in the group of scientists differs from that in the group of students.

The comparison also reveals the fact that the core of *social* representations of the unconscious does not contain any ideas that are not part of the core-periphery structure of *scientific* representations of the unconscious.

A number of ideas in the core and potential change area of *social* representations of the unconscious do not find support in collective consciousness. These include the idea that the unconscious may be defined in a positive way, as well as the ideas associated with various phenomena of the unconscious, such as memory storage, low intensity feelings, archetypes, memories of traumatic events, set, and norms of behaviour.

Social representations of the unconscious are characterized by the ideas describing various specific aspects of a phenomenon. This fact shows that social representations are more concrete. Analyzing the content of social representations of the unconscious one can note their orientation towards satisfying the everyday needs and wants of an individual.

Let us compare the obtained findings with the stages undergone by a scientific idea on the way of its transformation into social representations as they are described in literature. As seen in Table 5, social representations of consciousness show elements that indicate the second, the third and the forth stages of objectivation. The first stage of transformation took place quite a long time ago, and therefore the names of scientists who developed this concept are no longer associated with social representations. Social representations of the unconscious include elements referring to the first, second and third stages of objectivation. Speaking of the forth stage of the transformation of scientific ideas into social representations does not seem possible, as the word "the unconscious" itself has not been taken root in the Russian language yet and therefore cannot be regarded as a "substantial natural object."

 ${\it Table} \ 5$ Stages of transformation of scientific ideas into social representations

Stages of objectivation	Ideas of consciousness	Idea of the unconscious
Personification of scientific knowledge and phenomena.	Although 5% of the subjects mention the name of S. Freud in association with the word "consciousness," we believe that this stage took place quite a long time ago, and therefore the names of scientists who developed this concept are no longer associated with social representations.	Manifests itself in mentioning the names of S. Freud and C. Jung in the findings of the association experiment (13.75%) and the method of definitions. This is an evidence of penetration of ideas of psychoanalysis into collective consciousness. Let us remember that in this country, psychoanalysis was banned for a long time. On the other hand, regardless of the relatively frequent mentioning of reflexes as part of the unconscious, the name of I.P. Pavlov did not seem to appear. Therefore, the idea of reflexes has already grown into the minds of nonprofessionals.
2. Selection and exclusion of separate elements of the scientific theory (phenomenon) from context.	Not all scientific ideas are presented in collective consciousness. Besides, some scientific ideas have grown into social representations, whereas others are encountered rather seldom.	Only half of the scientific ideas describing the content of the unconscious are presented in collective consciousness. Others have either failed to penetrate collective consciousness or are not regarded as useful in everyday activities. Besides, some scientific ideas have grown into social representations (e.g. "instincts"), while others are encountered rater seldom (e.g. "memory storage").
3. "Formation of a figurative scheme," "image core."	The presence of figurative, tangible elements of high frequency: brain, human being, upper world objects (i.e. sun, sky, clouds, etc.) and others.	The presence of figurative, tangible elements of high frequency: lower world objects (soil, darkness, demon, etc.), human being, bottle (breach of social code), bed, etc.
4. "Naturalization," "ontization" of the "figurative scheme" and its comprising elements, i.e. "attributing material solidity to the image."	For instance, such phrases as "our consciousness may sometimes signal a coming disaster," "consciousness may control our thoughts and acts," "consciousness internally controls the brain" show that common sense operates elements of the "figurative scheme" as "substantial natural objects."	Speaking of this stage does not seem possible, as the word "the unconscious" itself has not taken root in the Russian language yet and therefore cannot be regarded as a "substantial natural object."

The following conclusions based on the findings of our study can be drawn:

- 1. The core-periphery structure of scientific and social representations of consciousness and the unconscious that is typical of modern Russian culture and common to such carriers of this culture as active researchers in psychology and students has been reconstructed. All ideas forming the central core of *scientific* representations of consciousness penetrate in a transformed form in the core area of *social* representations. The central core of scientific and social representations of the unconscious is formed by a larger number of ideas than that of the representations of consciousness, which proves that representations of consciousness are characterized by a higher degree of stability than those of the unconscious.
- 2. Social representations of consciousness are first and foremost characterized by the phenomena describing the learning activity of an individual.
- 3. Representations of consciousness are an inexplicit basis for the formation of representations of the unconscious. Representations of the unconscious are constructed as negation of ideas expressed in representations of consciousness.
- 4. The core of *social* representations of consciousness and the unconscious include the ideas coming from the non-core area of *scientific* representations of these phenomena. In other words, the frequency of the same ideas in scientific and social representations varies.
- 5. The core area of *social* representations of consciousness contains a number of independent ideas that have not been part of scientific definitions associated with the phenomenon considered, which means that representations of consciousness has turned into an independent, autonomous entity, a phenomenon endowed with its own objective reality.
- 6. It has been demonstrated that the core of *social* representations of the unconscious does not include ideas that are not part of *scientific* representations. Therefore, scientific and social representations of the unconscious show a higher degree of similarity than those of consciousness.
- 7. Social representations of consciousness seem to include elements that are indicative of the *forth* stage of objectivation according to S. Moscovici. At the same time, social representations of the unconscious include elements only associated with the *third* stage of objectivation.

- 8. As far as *social* representations of the unconscious are concerned, the potential change area, which plays an important role in the adaptation of representations to the changing context, includes a larger number of ideas borrowed from science and characterized by specific content than the potential change area of *social* representations of the unconscious. This proves higher stability of social representations of consciousness and their capacity to adapt to a new environment.
- 9. On the whole, the differences between scientific and social representations of consciousness and the unconscious derive from the fact that *scientific* representations have a more generalized and abstract nature and set stricter requirements to using terms and following the laws of logic. *Social* representations are characterized by greater concreteness, clarity, freedom in the use of terms, and inclusion of fragments from various fields of knowledge. The above mentioned differences between scientific and social representations are conditioned by the different functions of these representations. *Scientific* representations are aimed at seeking the essence of the phenomenon examined, seeking the objective truth, whereas *social* representations are meant to serve the "everyday" needs of an individual.

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Appendix: Glossary

In order to make the text compact, the ideas forming social representations of consciousness and the unconscious have been reduced to key words and phrases. The degree of correspondence between the key word (phrase) and the original idea has been controlled by the expert evaluation method. For the reader's convenience, the following glossary has been compiled; it contains the list of the key concepts and reveals the ideas corresponding to them in the examined texts.

 $\label{eq:Table 6} Table \ 6$ The key words and ideas forming social representations of consciousness

Key word (phrase)	Ideas
Adequacy	Adequacy of behavior in a human being in a conscious state. It ensures adequacy of perception and behavior. "A condition of an individual in healthy mind and memory, an ability to be aware of one's behaviour and feelings" (Ozhegov, 1989).
Awareness	 Consciousness as awareness of one's "ego," self-consciousness is part of the structure of consciousness. Thanks to consciousness, one can be aware of oneself, one's actions and the outside world. See "realize," "confess": same as to be aware of (Ozhegov, 1989).
Brain	Activity of consciousness (mind) is ensured by the brain activity. The nervous system and the brain are the material foundation of activity of consciousness.
Behaviour and activity	Consciousness manifests itself through an individual's actions. Consciousness manifests itself in behavior and activity. Thanks to human consciousness, a world of culture emerges.
Control	It enables a human being to control his or her behavior.
Difficulty with defining	The concept of "consciousness" is hard to define.
Emotional phenomena	Apart from the rational component, consciousness also includes irrational components, i.e. feelings, senses, sensations. Consciousness includes phenomena of the emotional sphere.
Development	Consciousness is subject to development.
Human being	The carrier of consciousness is a human being. The carrier of mind is a human being.
Inner world	Consciousness may be regarded as the inner world of a human being.
Knowledge	Knowledge as a result of the activity of mind. Consciousness ensures learning activity the product of which is knowledge.
Localization in one's head	Consciousness is located in one's head.

-	•
Mind, thinking	 Consciousness is mind (intelligence). Mind ensures the psychic process of thinking resulting in thoughts. Consciousness is the same as mind, intelligence. The same as conscientiousness: an ability to properly understand the surrounding reality, identify one's behavior (Ozhegov, 1989).
Motivation	Consciousness performs a driving function.
Other cognitive phe- nomena	It also includes other phenomena of the cognitive sphere.
Part of psychics	Consciousness is a directly given part of psychics. Consciousness is the only directly observed part of psychics; consciousness is an object of psychological research.
Personality	It determines an individual's personality.
Philosophy	Philosophical understanding of consciousness as the antithesis of matter. Consciousness is an object of study in philosophy.
Positive definition	The word "consciousness" receives a positive definition.
Property of living matter	Consciousness is the property of a living body; it is associated with life. Consciousness is a property of a human being.
Reflection	 Consciousness reflects the outside world. It is a "human ability to reproduce reality in thinking; mental activity as reflection of reality" (Ozhegov, 1989).
Synonym to the word "soul"	Consciousness as similar in meaning to the word "soul." Consciousness and soul may sometimes be used as synonyms.
The opposite of the unconscious	Consciousness is opposed to the subconscious, the unconscious.
Understanding	1. The activity of mind may also result in understanding something. 2. The activity of consciousness results in understanding something. 3. "A thought, a feeling, understanding something clearly" (Ozhegov, 1989).
Upper level of the psychics	Consciousness is the upper level of the psychics.

 $$\operatorname{Table}\ 7$$ The key words and ideas forming social representations of the unconscious

Key word (phrase)	Ideas
Breach of public standards	It manifests itself in the breach of rules accepted in society.
Connection with consciousness	The unconscious is defined in connection with the concept of "consciousness": either as its "continuation" or as its opposite.
Death	The dead person is unconscious.

Difficulty with defining	The phenomenon of the unconscious is hard to define and explain.
Dream	The unconscious is reflected in dreams.
Emotional phenomena	It includes emotions and feelings.
•	-
Forgotten memories	It contains forgotten memories.
Something hidden from consciousness	The unconscious is hidden from consciousness.
Human being	The carrier of the unconscious is a human being.
Illness	The unconscious is inherent to illness.
Inadequacy	The unconscious state is characterized by the inadequacy of perception, thoughts, behavior.
Inner world	The unconscious is part of the inner world.
Instability of term	The term "the unconscious" has not taken root in the Russian language.
Instincts	The unconscious includes animal instincts.
Intuition	Intuition as part of the unconscious is a way of learning. The unconscious manifests itself through the phenomenon of intuition.
Lack of volitional control	The unconscious condition lacks volitional control. "Unconscious" is instinctive, unaccountable (Ozhegov, 1989).
Lower level of psychics	The unconscious is the lower level of psychics.
Misunderstanding	The unconscious and its manifestations are misunderstood by respondents. Unconscious behavior is beyond one's understanding.
Motivation	It is a driving force of human behavior.
Negative definition	The unconscious receives a negative definition.
Psychoanalysis	1. S. Freud is the founder of psychoanalysis, a school that regards the unconscious as the central phenomenon of human psychics. The concepts of "dream," "instinct," the "subconscious" constitute significant elements of the psychoanalytical conception. 2. The unconscious is an object of psychoanalytical study.
Something that is non-conscious	The unconscious is something that is non-conscious. Accompanied by the loss of consciousness (Ozhegov, 1989).
Spontaneous reactions, reflexes and automatisms	The unconscious includes reflexes. Unconscious behavior cannot be controlled by consciousness, it is reflected in spontaneous reactions, reflexes, and automatisms.
Stress	The unconscious reveals itself under stressful circumstances.
The opposite of consciousness	Consciousness is opposed to the unconscious.
Thoughtless	The unconscious is associated with thoughtless, irrational behaviors and actions. It is characterized by the lack of logic manifested in thoughtless, irrational behavior.