



FORMATION AND STUDY OF 3D CINEMA IN FILM ART IN KAZAKHSTAN

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V. Popov¹, M.E. Goldovskaya²

¹ Kazakh National Academy of Arts named after
T.K. Zhurgenov,
Almaty, Kazakhstan

² Film schools at the University of South Carolina
(California)

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Abstract

The problems of formation and study of the new direction in the audiovisual culture and art are discussed here, that is 3D cinema. The approaches to the evaluation of the communicative potential have been developed on the example of the shooting team of full-length 3D movie "Returning to the 'A'" directed by Yegor Mikhalkov-Konchalovsky. The purpose of the study is to conduct a comprehensive evaluation of the integral characteristic of the communicative potential - social and psychological climate in the shooting team of full-length feature 3D movie by creating a full-length staged first Kazakh 3D movie "Returning to the 'A'" directed by Yegor Mikhalkov-Konchalovsky. According to the study results, to create high-quality film product it is necessary to establish favourable, optimal social and psychological climate in the shooting team. Communications are social communication and exchange of information, and by analogy to the substance and energy exchange, which is called metabolism, communications are social and information metabolism. 3D film-making technology can extend the capabilities of the communication potential of film art as a means of mass communication.

Keywords: 3D cinema, audiovisual arts, film director, social studies, communications

Introduction

Stereoscopic films or 3D cinema. Screen art is inherently linked to the evolution of the technical and technological achievements, as there is mutual interdependence and creative design and technology component of the film industry [1]. Modern 3D-technology makes the screen image more convincing

and expressive, lead to the creation of a screen culture of the new virtual world [2]. 3D remains one of the most powerful technologies of film medium in modern cinematography [3].

Three-dimensional image born by a new era was marked by a real revolution in the world of cinema [4, 5]. The phenomenal success of the 2009 James Cameron's

3D movie “Avatar” (see figure 1) has become the main catalyst for the rapid development of 3D cinema worldwide [6].

The premiere of the full-length staged first Kazakh 3D movie “Returning to the ‘A’” directed by Yegor Mikhalkov-Konchalovsky in 2011 marked the opening of the era of Kazakh 3D cinema. The film plot is based on real events during the war in Afghanistan, about the heroism and true friendship of two fellow soldiers - Russian and Kazakh [7-9]. The film slogan - “Story of Love and Friendship through Fire and Years”. Scriptwriters - Vladimir Moiseenko, Alexander Novototsky-Vlasov.

Director of Photography of the film is Anton Antonov. Producer and the leading man starring legendary Major Kara - Arman Asenov. The shooting team also included a directing group (including directors: Anatoly Avshalumov, Meira Karbozov), administrative group, an acting group (the film involved both Kazakh and Russian actors - Seydulla Moldahanov,

Berwick Aitzhanov, Denis Nikiforov, Gosha Kutsenko, Natalia Arinbasarova, Asha Matai, etc.), camera crew, sound crew, a group of film artists, a group of pyrotechnics, drivers, doctors etc.

The film had several working titles - «Afghan», «Kara Major», «Real Colonel»; eventually, title Returning to the ‘A’ was selected. Returning to the ‘A’ involved as an advisor a combatant in Afghanistan, a prototype of the main character of the film Kara Major, retired colonel Boris T. Kerimbayev, whose memories formed the basis of the film. Kara Major – B.T.Kerimbaev during shooting of the film was constantly on the set [10,11]. Chief Advisor - Land Forces Chief Commander Lieutenant General of the RK S.A.Zhasuzakov.

Production: Kazakhfilm Film Studio named after Sh.Aymanov, together with production center Baiterek and PS TVC studio. The material was converted in 3D by 3D Azimut (see figure 2).



Figure 1 - Film “Avatar”. James Cameron. 2009.



Figure 2 - “Film Returning to the 'A'”. Yegor Mikhalkov-Konchalovsky. 2011.

The purpose of the study is to conduct a comprehensive evaluation of the integral characteristic of the communicative potential, social and psychological climate in the shooting team of full-length feature 3D movie by creating a full-length staged first Kazakh 3D movie “Returning to the ‘A’” directed by Yegor Mikhalkov-Konchalovsky

Communications and their types

The XXI century is called the century of new, modern, computer, communication, 3D technologies, the rise of multicultural relations. This century requires from people a new way of thinking, qualitatively different education, higher communicative potential, a new type of behavior and interaction with people. The word «communication» itself comes from the Latin «communico» - do common, communicate. The communication, which plays a key role in human society [12], means converse, exchange of ideas, knowledge, emotions, behavior patterns, etc. [13]. «The only real luxury is the luxury of human communication» - so says Antoine de Saint-Exupery [14]. This has been discussed for centuries by the philosophers.

There are the following types of communication: intrapersonal - a conversation with himself, person’s inner monologue, etc.; interpersonal - it involves two communicants; group - within the group, between groups, an individual - a group; mass - a large number of people receive or use a message (cinema, television, radio, etc.) [15].

Communications in the film production

All four types of communications are typical of the film production: intrapersonal - individual inner work of a scriptwriter,

director on the script, an actor on the role, etc.; interpersonal - relationships, exchange of information, interaction between the scriptwriter and director, director and actor, actor with the actor, etc.; group - the relationship, exchange of information, cooperation between members of the shooting team, mass (audiovisual information) is transmitted to the masses (a mass communication).

Communications in the shooting team are classified into two groups: internal - the relationship between the members of the group are major in film-making process; external - through the film product - with the audience.

We have developed the model of film production by types of communications (see figure 3).

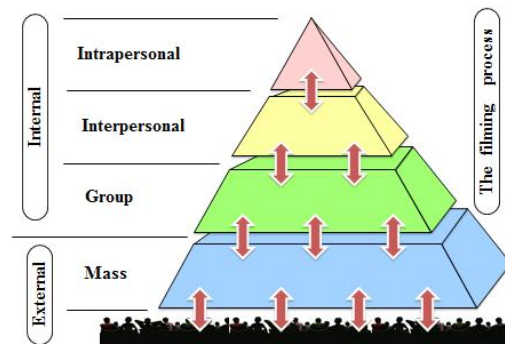


Figure 3 - The model of film production by types of communications

Communications are social communication and exchange of information, and by analogy to the exchange of substance and energy, which is called metabolism, we can say that communication is social and information metabolism.

3D film-making technologies enable to extend the capabilities of the communication potential of film art as mass-communication tool.

Social and psychological climate

«Staff is a key to everything» - a phrase known in the Soviet period has the doubled relevance for film production - for both shooting team staff, and for the frames of the film shot.

The director's art involves a creative organization of all film-making elements to create a single, harmonically coherent piece of art. This goal is reached by the director only if a creative team is established in a favourable atmosphere - a favourable social and psychological climate [16].

This requires knowledge of the theoretical and practical bases of formation of communication, a favourable social and psychological climate, as well as tools - methods of its evaluation and monitoring. It is no accident the classic manual on directing by P.M.Yershov is called: Directing as Practical Psychology [16].

Social and psychological climate (SPC) of the staff is almost an integral feature of the condition of the team, it is socially conditioned, relatively stable system of attitudes of its members to the team as a whole. Social and psychological climate is always based on interpersonal relationships, so it is an indication of their condition [17].

Role and style of leader

The role of the leader in the creation of optimum SPC is crucial [18,19]. The leader can significantly impact the nature of interpersonal relationships in the staff, on attitude to joint activities, satisfaction with the work conditions and results, i.e. social and psychological climate, which largely depends on the efficiency of the organization as a whole.

Democratic style of develops sociability and trust of relationship, friendliness.

At the same time, there is no feeling of solutions forced from outside, «from above». Participation of the team members in management, typical of this style of leadership, helps to optimize SPC.

The authoritarian style usually generates hostility, humility and flattery, envy and distrust. But if this style leads successful, which justifies its use in the eyes of a team, it contributes to the favourable SPC, such as in sports or army.

Laissez-faire style results in low productivity and poor quality of work, dissatisfaction with the joint activity and leads to the formation of unfavourable SPC. Laissez-faire style may be acceptable only in some creative teams [20,21].

Methods of study

Methods of study: to accomplish the purpose of the study modern methodological basis was used - the main elements of a systematic approach to the use of information and analytical, bibliographical, historical, sociological, statistical scientific research methods. Sociological method of study was conducted through questionnaires and video interviews of shooting team members of staged full-length feature 3D movie «Returning to the 'A'» directed by Yegor Mikhalkov-Konchalovsky. We have carried out the sociological study of communication processes in the most important period of filmmaking - shooting. The sociological study used a representative sample - the entire key staff of the shooting team (50 people). We have evaluated the integral characteristic of human relationships (communications) - the social and psychological climate in the staff of the shooting team of full-length staged first Kazakh 3D movie directed by Yegor Mikhalkov-Konchalovsky «Returning to the 'A'».

To evaluate the communicative potential and to study the social and psychological climate in the staff of the shooting team we have developed a comprehensive assessment methodology using the existing social and psychological tests and new methodological approaches, video interviewing, enabling to carry out its assessment and monitoring, we have developed a questionnaire to carry out a sociological study.

The questionnaire was drawn up in accordance with the recommendations for the development of questionnaires for sociological research [22] and included the introduction, personal data part, 30 questions. Nine of the 30 questions of the questionnaire used modern informative social and psychological tests and techniques [23] for the study of the integrated characteristics of the communications - social and psychological climate in the team [24, 25], carefully selected after a study of the existing methods of investigation of this problem in the literature [26, 27].

Results

The results of the social and psychological tests and techniques used in the questionnaire in the course of sociological study revealed the following.

Express methods for the study of social and psychological climate in the organization by O.S.Mikhalyuk and A.Yu. Shalyto [23, p. 252-255] enable to reveal the emotional, behavioural and cognitive components of relations in the unit. The methods were developed at the Department of Social Psychology, Faculty of Psychology of St. Petersburg University. The psychological climate of the primary organizational unit is understood by the authors as a socially conditioned, relatively stable system of

relations between the members of the unit to the unit and the organization as a whole. Analysis of the data obtained using this method is standardized and has a calculation algorithm, based on which the various aspects of attitude to the staff for each person individually is analyzed. Thus, the following options of social and psychological climate in the organization are possible: 1) very favourable; 2) generally favourable; 3) totally unsatisfactory; 4) generally unsatisfactory; 5) trends are contradictory and vague. According to these methods, the social and psychological climate in the shooting team staff (STS) is defined as very favorable.

Discussion

The psychological climate on the emotional level reflects relations prevailing in the staff, the nature of business cooperation, attitude to the significant events of life. The psychological climate is formed through the «psychological atmosphere» - also the emotional state of the group, which, however, takes place in a relatively short periods of time, and which in turn creates situational emotional states of the staff. Defining psychological climate of the group according to schematic map by L.N.Lutoshkin [23, p. 251] allowing revealing whether it is favorable or unfavorable confirmed that the psychological climate in the STS is also favorable.

Defining the psychological climate in the organization by 7 characteristics [23, p. 255]. This technique is based on a specific type of survey involving all members of a certain department. Each of them is given a questionnaire containing a table with the seven most important characteristics of behaviour and attitude that must be present in an ideal staff, which the respondents evaluate on a 5-point scale.

The test shows the level of the seven most important characteristics of the staff, and, consequently, the social and psychological climate in it. These characteristics are as follows: responsibility; community spirit; cohesion; sociability; openness; organization; awareness. The data obtained are added to the defined average score (for each indicator) and entered on a graph that illustrates the social and psychological climate chosen to study the staff. Defining psychological climate in the organization by 7 characteristics on a 5-point scale has revealed that for the shooting team staff the average score by 7 characteristics is 4.2, which is interpreted as an optimal psychological climate.

Evaluation of the psychological atmosphere in the organization [23, p. 252]. The technique is used to evaluate the psychological atmosphere in the organization. It is based on the method of semantic differential. Response for each of the 10 scale points is measured from left to right from 1 to 9 points. The more left-handed is «X», the lower the score, the more favourable psychological climate in the organization is, according to the responder. Total indicator ranges from 10 (the most positive score) to 90 (most negative) points. On the basis of the individual profiles, an average profile is created that characterizes the psychological atmosphere in the organization. The technique is interesting because it allows anonymous testing, which increases reliability. The psychological atmosphere in the organization was evaluated by 10 characteristics in points (from 10 - the most positive evaluation, to 90 points - the most negative evaluation). The lower the total score, the better the atmosphere in the organization. Evaluation of the psychological atmosphere in the shooting

team is 26 points, which characterizes it as a positive, favourable.

Group cohesion is a very important parameter, indicating the degree of group integration, its cohesion into a unified whole. Definition of the group cohesion index by Seashore [23, p. 249] in points (from a minimum of 5 to a maximum of 19 points) showed that the group cohesion index in the shooting team is 15 points - close to the maximum positive score.

Sociability evaluation test by V.F.Ryakhovsky [23, p. 290-291], according to which the defined respondents' sociability may have 7 levels - from the lowest possible to the highest possible level, revealed that 95% of STS members have sufficient level of sociability.

According to results of the method of psychological study of the respondent's social environment by sociometric evaluation of the actual and the desired place in the respondent's group, 80% of respondents indicated correspondence of the real and the desired place in the shooting team staff, 20% of respondents - a desire to take a more central (more high-status) position in the team. Thus, the overwhelming majority of the staff members indicated the correspondence of actual and desired place in the shooting team staff.

Methods of determining the leadership style by V.P.Zakharov and A.L.Zhuravlev [23, p. 280-282] (authoritarian, liberal or democratic) have revealed that the management style in the STS is democratic.

Thus, conducted comprehensive analysis of the social and psychological climate in the shooting team staff of full-length feature 3D movie "Returning to the 'A'" directed by Yegor Mikhalkov-Konchalovsky has revealed its positive evaluation in all tests as the best,

friendly, good, close to the maximum group cohesion index (according to Seashore), sufficient level of sociability and democratic style of leadership.

At the same time, 100% of the respondents to the question «Who is generally responsible in your entire shooting team for the social and psychological climate?» responded that the head of the shooting team – the director.

Thus, the analysis of the SPC in the shooting team staff of full-length feature 3D movie “Returning to the ‘A’” directed by Yegor Mikhalkov-Konchalovsky has revealed its positive evaluation in all the communicative tests, which could not but affected the film itself. Thus, Kazakh first 3D movie was nominated from Kazakhstan for Oscar Award in the category «Best Foreign Language Film,» was the opening film at the II International Action Film Festival in Astana (2011), at the VII International Film Festival «Eurasia» in Almaty (2011), 33rd Moscow International Film Festival (2011), Tashkent International Cinema Forum “Golden Guepard” (2011), at Cinema Mundi, Brno (2012) [10, 28] (see figure 4).

The film received praise and recognition of the audience and film critics.

Conclusion

According to the study results, to create high-quality film product it is necessary to form a favourable, optimal social and psychological climate in the shooting team.

To improve film-making personnel management and film production quality, improve the film-making process and SPC in the shooting team it is recommended to include in the staff the communication expert, to use the cutting-edge film-making technology and financial incentive (wage increase).

The results of this study can be used



Figure 4 - “Film Returning to the ‘A’”. Yegor Mikhalkov-Konchalovsky. 2011.

for in-depth study and understanding of the leader’s role and the formation of the communicative potential both in creative and any other staff.

The developed approaches to SPC evaluation in the shooting team of staff can be used as a methodological tool for assessing and monitoring the social and psychological climate and communications in practice of both the directors, creative staff and leaders of teams and organizations at different levels.

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3D film-making technology can extend the capabilities of the communication potential of film art as a mass-communication tool.

References

1. Hayes, R.M. 3-D movies. A history and filmography of stereoscopic cinema. Jefferson: McFarland & Company, 1998. – 414 p.
2. Low, C. "CyberWorld" in IMAX 3-D // *Take One: Film & Television in Canada*. – 2001. – № 33. – P. 36-37.
3. Ukai, K. & Howarth P.A. Visual fatigue caused by viewing stereoscopic motion images: Background, theories, and observations // *Displays*. – 2008. – № 29 (2). – P. 106-116.
4. Zone, R. The last great innovation: The stereoscopic cinema. *SMPTE motion imaging journal*. – 2007. – P. 518 – 523.
5. Mendiburu, B. 3-D Movie making: Stereoscopic movie making. – Oxford: Focal Press, 2009. – 232 p.
6. Duncan, J. & Fitzpatrick, L. *The Making of Avatar*. – Abrams Books, 2010. – 271 p.
7. Khrabryi, O. Afghan Breakdown // *Express K*. – 2009, December – 10.
8. Sugirbaeva, M. Hero lived next to us ... // *Karavan*. – 2011. – February – 25.
9. Mukysheva N. The hero of contemporary of Kazakh cinema // *Central Asian Journal of Art Studies*. – 2016. – № 1. – P. 105-116.
10. Official page of Returning to the 'A'. // <http://bayterekfilm.kz/films/vozvrashhenie-v-a/> (date of access 01.02.2016).
11. Returning to the 'A'. // <http://www.kinopoisk.ru/film/491882> (date of access 01.02.2016).
12. Shubrt, J. Niklas Luhmann: Problem of Communication within Functionally Differentiated Society. *Sociological Studies*. – № 1. – P. 5-15.
13. Pocheptsov, G.G. *Communication Theory*. – M: Refl-Book. – 656 p.
14. Saint-Exupery, A. *Wind, Sand and Stars* / Transl. from French by G. Velle. – M. – 200 p.
15. Kashkin, V.B. *Basics of Communication Theory*. – M.: AST Vostok – Zapad. – 256 p.
16. Yershov, P.M. *Directing as a Practical Psychology. Interaction of People in Life and on Stage. Directing as the Spectacle Construction*. – M.: Mir Isskustva. – 408 p.
17. Boyko, V.V., Kovalev, A.G., Panferov, V.N. *Social and Psychological Climate of the Staff and Individual*. – M. – 208 p.
18. Kalinina, A.O. *Factors Influencing Formation of the Psychological Climate*. – M.: VLADOS. – 413 p.
19. Kuzmin, E.G., Volkov I.P., Yemelyanov E.N. *Leader and Staff*. – SPb.: Severozapad. – 322 p.
20. Kabachenko, T.S. *Psychology of Management*. – M.: Russian Pedagogical Agency. – 166 p.
21. Tikhonov, M.Yu. *Features of Management of Creative Teams. Soviet Period of Sociology Development and Modernity*. – M.: RAGS. – 12 p.
22. Devyatko, I.F. *Methods of Sociological Study*. – M.: SAM. – 296 p.
23. Karelin, A.A. *Large encyclopedia of psychological tests*. – M.: EXMO. – 416 p.
24. Anastasi, A. & Urbina, S. *Psychological Testing*. – SPb.: Peter. – 688 p.
25. Volkov, B.S., Volkova, N.V., Gubanov, A.V. *Methodology and Methods of Psychological Study*. – M.: Academic Project. – 352 p.
26. Ilyin, Ye.P. *Psychology of Individual Differences*. – SPb.: Peter. – 701 p.
27. Myers, D. *Social Psychology*. – M.: Progress. – 368 p.
28. 63 Countries Vie for 2011 Foreign Language Film Oscar. 63 Countries Vie for 2011 Foreign Language Film Oscar // <http://www.oscars.org/press/pressreleases/2011/20111013.html/> (date of access 01.02.2016).

В.И. Попов, М.Е.Голдовская

*Т.Қ.Жүргенов атындағы Қазақ Ұлттық өнер академиясы
Алматы, Қазақстан
Оңтүстік Каролина Университетінің Киномектебі (Калифорния).*

ҚАЗАҚСТАННЫҢ 3D КИНЕМАТОГРАФТЫҢ ҚАЛЫПТАСУЫ ЖӘНЕ ЗЕРТТЕУ

Аңдатпа

Аудиовизуалды мәдениет пен өнер - 3D киноөнер саласындағы жаңа бағытты қалыптастыру және зерттеу мәселелері қарастырылады. Режиссер Егор Михалков - Кончаловскийдің "А-ға оралу" толық метражды 3D фильмінің түсірілім тобы ұжымының мысалында коммуникативтік әлеуетті бағалау тәсілдері әзірленді. Зерттеудің мақсаты: толық метражды 3D көркем фильмінің түсірілім тобының ұжымындағы әлеуметтік - психологиялық климаттың коммуникативтік әлеуетінің интегралдық сипаттамасына кешенді баға беру, режиссер Егор Михалков-Кончаловскийдің "А-ға оралу" толық метражды күрделі-қойылымдық алғашқы Қазақстандық 3D фильмін жасау мысалында. Зерттеу нәтижелері бойынша сапалы киноөнімдерді жасау үшін ұжымда қолайлы, оңтайлы әлеуметтік-психологиялық климатты түсіру тобын қалыптастыру қажет. Коммуникация – бұл әлеуметтік байланыстар мен ақпарат алмасу, метаболизм деп аталатын заттар мен энергия алмасуға ұқсас, коммуникация - бұл әлеуметтік-ақпараттық метаболизм. Киноөндірістің 3D технологиялары кино өнерінің коммуникациялық әлеуетін бұқаралық коммуникация құралы ретінде кеңейтуге мүмкіндік береді.

Трек сөздер: 3D кинематограф, аудиовизуалды өнер, режиссер, социологиялық зерттеулер, коммуникация

В.И. Попов

*Казахская национальная академия искусств им. Т.К.Жургенова
Алматы, Қазақстан*

СТАНОВЛЕНИЕ И ИЗУЧЕНИЕ 3D КИНЕМАТОГРАФА В КИНОИСКУССТВЕ КАЗАХСТАНА

Аннотация

В статье рассматриваются проблемы становления и изучения нового направления в области аудиовизуальной культуры и искусства - 3D киноискусства. Разработаны подходы к оценке коммуникативного потенциала на примере коллектива съемочной группы полнометражного 3D фильма режиссера Егора Михалкова-Кончаловского «Возвращение в А». Цель исследования: провести комплексную оценку интегральной характеристики коммуникативного потенциала - социально-психологического климата в коллективе съемочной группы полнометражного художественного 3D фильма на примере создания полнометражного сложно-постановочного первого казахстанского 3D фильма «Возвращение в А» режиссера Егора Михалкова-Кончаловского. По результатам исследования для создания качественной кинопродукции необходимо формирование в коллективе съемочной группы благоприятного, оптимального социально-психологического климата. Коммуникации - это социальные связи и обмен информацией, и по аналогии с обменом веществ и энергией, называемым метаболизмом, коммуникации – это социально-информационный метаболизм. 3D технологии кинопроизводства позволяют расширить возможности коммуникационного потенциала киноискусства как средства массовой коммуникации.

Ключевые слова: 3D кинематограф, аудиовизуальное искусство, режиссер, социологические исследования, коммуникации

Сведения об авторе: Попов В.И. — доктор PhD, старший преподаватель кафедры «Режиссура экранных искусств» Казахской Национальной Академии искусств имени Т.К.Жургенова.

e-mail: popovfilm@mail.ru

Голдовская М.Е. - Заслуженный деятель искусств России, доктор искусствоведения, профессор, член американской киноакадемии. Киношкола университета Южной Каролины (Калифорния).

Автор туралы мәлімет:

Попов В.И. – PhD докторы, Т.Қ.Жүргенова атындағы Қазақ ұлттық өнер академиясының «Экрандық өнер режиссурасы» кафедрасының аға оқытушысы.

e-mail: popovfilm@mail.ru

Голдовская М.Е. - Ресейдің еңбек сіңірген өнер қайраткері, өнертану докторы профессор, америка киноакадемиясының мүшесі.

Оңтүстік Каролина Университетінің Киномектебі (Калифорния).

Author's data:

Vladimir Popov – PhD, senior lecturer of the Department of “Screen arts directing” at the T.K.Zhurgenov Kazakh National Academy of Arts.

e-mail: popovfilm@mail.ru

Goldovskaya M.E. - Honored Art Worker of Russia, Doctor of Art History, Professor, Member of the American Film Academy.

Film School of the University of South Carolina (California)