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RESEARCH ARTICLE

GENIUS AND SEASON OF BIRTH

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ABSTRACT

A particular solar cooker namely the Binary oppositions are necessary attributes of the Universe. One important manifestation of bipolarity is duality of mental processes, defined by brain lateralization on left and right hemisphere, what determines the creative activity in a particular area: art or science, poetry or painting, physics or lyrics. It is known to divide people into two opposite class: the romantics (right-brain) and pragmatics (left-brain). A highly talented creative personality also falls into two main classes: born in the winter are romantics, born in the summer are pragmatists. Born in winter, typically, are outstanding poets, painters, composers; born in summer are prominent physicists, bankers, administrators, as well as brilliant surgeons and pianists.

INTRODUCTION

The concept of bipolar is becoming more and more popular in recent years. Such attentions to a binary orientation, desire clearly streamline a variety of phenomena, arrange them along a particular axis are enough synchronously developing all over the place. The idea of splitting, divergence properties and their attraction to one of the two poles has a long history. Yin and Yang, male and female, left and right, high and low, matter and spirit, science and art... Newsome (1974) wrote that the dynamism of the universe (in the romantic feelings of the nineteenth century) stems from the opposition and the voltage between two extremes is a necessary condition for movement and progress. There are more arguments in favour of that binary opposition are essential, necessary attributes of the Universe, that without them it is impossible to the existence of any complex system. It turns out that for the survival of any system, in order to effectively interact with the surrounding Wednesday, it is necessary to splitting into two "halves", possessing diametrically opposed characteristics to meet two different system trends: "expansion" and "idealization". When this *expansion* is responsible for search behavior, and *idealization* is responsible for conservative behavior (Golitsyn, 1995). Duality of mental processes (from kaleidoscope of various manifestations of bipolarity) is of greatest interest: "verbal-linear" and "visual-spatial". For some time, scientists noticed that the two halves of the brain differ in their functions; in other words, the brain is characteristic a lateralization of hemispheres.

For most people, the left hemisphere controls the activity of the brain associated with language and analytical type of thinking. Therefore, the type of information processing so organizes any used material that creates clearly understood a linear, logical context, with no other interpretations. The right hemisphere controls the visual forms of mental processes and intuitive mental activity. The peculiarity of the same type of information processing is given in single-coverage all information links. Reflection on the figurative level provides a perception of the world in its entirety, diversity and inconsistency, which is necessary for fullest sensory contact with reality, for emotional stabilization (Arshavskij, 1999). The confrontation of left- and right-hemisphere is the core of development, which is the largest living psychologists D. Simonton named "*space-biology*": the dependence of the *creative activity* from the *season of birth* (Simonton, 1994). Irregularity of birth eminent personalities throughout the year, with the peak seen in February in the winter, was spotted long (Huntington, 1938). Later this phenomenon observed almost simultaneously, independently of each other, at least three researchers in different countries (Kaulins, 1979; Vinogradov, 1989; Marzullo, 1996). "A curious and unexplained condition human genius turns out to be a season of birth," wrote about this phenomenon of largest psychologist Hans Eysenck (Eysenck, 1995 p.145). D.Simonton wrote: "This scientific astrology can make a modest contribution to the complete human psychical biography. Whatever reputation the use of biology, my point remains the same: at least part of what

makes the identity of pre-brilliant, can be controlled by events occurring before its birth... Some famous personalities were undoubtedly born as brilliant" (Simonton, 1994). American researcher G. Marzullo studied most deeply the relationship between genius and season of birth (Marzullo, 1996). In accordance with his concept, the influence of the season of birth on personality is based on *left-right-brain* balance. According to the research of embryologic, differentiation of human embryo to the left and right half occurs in the first two weeks after conception (stage of gastrulation) (Wolpert, 1992). At the lateralization embryo brain that correlates with the degree of lateralization of the adult human brain. According to Marzullo, born in *winter*, usually prominent representatives of creative professions: poets, painters, composers, violinists, chess players, which are characterized by a holistic thinking and romantic attitude. *Summer* born personalities with well-developed data sets and realistic thinking, pragmatic world-views (for example, physics, the bankers, the administrators in medicine and education), as well as possessing strong, accurate arms, coordination which is also managed by the *left hemisphere* (for example, surgeons and pianists). The phenomenon of seasonal variability in the birth of genius and talent is most fully described in studies of birth season Nobel Prize winners in different nominations (Mazhul, 2013; Mazhul, 2014; Mazhul, 2015), as well as prominent political figures, Soviet and American (Mazhul, 2014; Mazhul *et al.*, 2015).

It should be borne in mind, however, that the phenomenon of the impact of the month of birth on success in the sphere of left- or right-hemispheric activities clearly manifests itself only on a per-vertex basis (geniuses and talents). Marzullo believes that season of birth can affect a person's ability to be successful in this area, but at the same time has no influence on his decision to choose a profession. So *knowledge about the phenomenon of seasonality* can lead to a better understanding of themselves and significantly improve the harmonization of *abilities and professional choices*. {Comparing the creators of art (born in peak in winter) with the critics of art (born in peak in summer), the authors come to the conclusion that the child, born in winter, has 30% more likely to become a famous creator of art than a critic, whereas a child born in the summer, has 50% greater chance of becoming a critic of the arts than his creator! (Marzullo, 1996 p. 81)}. In the study of birth season of Nobel Laureates (Mazhul, 2014; Mazhul, 2013; Tyutyunnik, 2013; Tyutyunnik, 2013) were not covered by the Nobel Peace Prize laureates, as well as Swedish Bank Prize in economic sciences in memory of Alfred Nobel, which essentially equates to Nobel Prizes. We have eliminated this drawback.

Built us distribution for Laureates in Nobel Peace Prize by country shows that 21% is accounted for by the winners of the United States. Second place have United Kingdom (10%), France (9%), Sweden (5%), Germany and South Africa (4%), Ireland, Israel, Switzerland and Belgium (3%), USSR, Austria, Liberia, Norway, Argentina, India and Egypt (2%), many countries continue to 1%. With regard to the season of birth of Nobel Peace Prize laureates, as can be seen from Figure 1, where the ordinate postponed number of winners, and the abscissa is dual months of birth (January-February (JF), March-April (MA), May-June (MJ), July-August (JA) September-October (SO) and November-December (ND)), they were distributed in two peaks: low, but a broad peak in the zone of JF, MA, MJ (with a maximum in March-April) and a sharp peak in the zone of September-October.

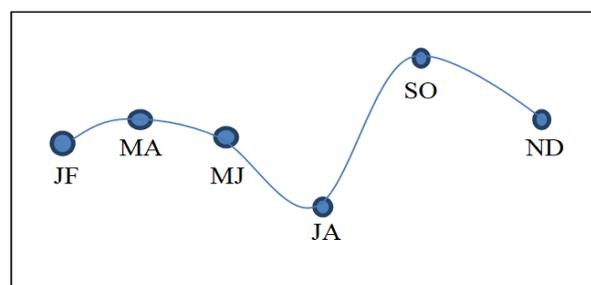


Fig.1. Birth seasons of Nobel Peace Prize laureates

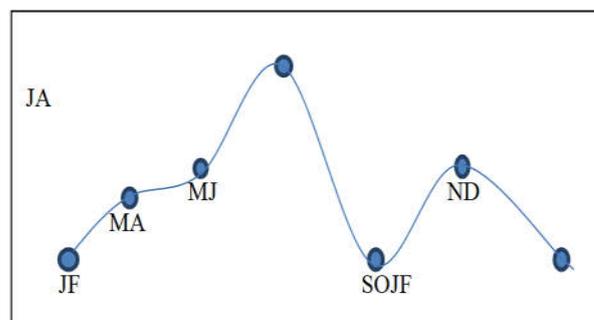


Fig.2. Birth seasons winners of Swedish Bank in economic sciences

According to Marzullo (1995), the representatives of the first peak (March-April) are brain, emotionally-shaped type of thinking and romantic view of life. Representatives of the second peak (September-October) are left-brain with Boolean type thinking, that are realists and pragmatists. So we can say that for peace fighting two types of personalities: or romance, fictionists and dreamers who are trying to improve the world by inventing new paradigms or realists and pragmatists, trying to improve the world as it is. Most laureates in economics also presented in more United States (76%); then followed the United Kingdom (10%), Sweden and Norway (3%), Israel, Austria, France, Switzerland, Germany and the USSR (by 1.4%).

By season of birth laureates in economics (Figure 2, similar coordinates and designations) also were distributed in two peaks: in the zone July-August (logical, rational, and therefore thinking) and a small peak in the zone of November-December which have a more balanced way of thinking, with a slight prevalence instances, logical thought image. In this season (November-December), according to Marzullo research (8), were born only known baseball players, different strength and agility, with a balanced on the left-right-thinking hemisphere. According to our data (Mazhul *et al.*, 2014), this peak (November-December) is part of the academicians of the RAS in chemistry, as well as marshals of the Soviet Union. You can think for born in the peak were not only physical strength but the strength of spirit and nature, high motivation in achieving the goals and the will to win. The results obtained confirm the model developed by Marzullo (Eysenck, 1995) with respect to the effects of solar radiation on the formation of a hemispherical asymmetries among representatives of different professions: maximum right-brain falls on births during the winter months (January-February-March), which is typical for representatives of creative professions with a romantic way of thought (lyrics), while the maximum left-brain falls on those who were born in the summer months (July-August-September) that characteristic of the representatives rationally-logical minded professions (physics).

REFERENCES

- Arshavskij, V.V. 1999. Population mechanisms of formation of a hemispherical asymmetry of polymorphism of the human brain. *The world of psychology*. No.1.
- Eysenck, H.J. 1995. *Genius The natural history of creativity*. Cambridge: Cambridge University Press.
- Golitsyn G.A., Petrov V.M. 1995. *Information and creation: Integrating the 'two cultures'*. Basel; Boston; Berlin: Birkhauser Verlag.
- Huntington, E. 1938. *Season of birth: The relation to human abilities*. NY: Wiley.
- Kaulins, A. 1979. *Cycles in the birth of eminent humans. Cycles.*, Vol.30, pp.9-15.
- Marzullo, G. 1996. *Month of birth, creativity, and the 'two classes of men'*. NY: Per Aspera Books.
- Mazhul L.A. 2005. Creative personality and season of birth. *Study of cultural life: the quantitative aspects. Intern. Sci. Sympos. in memory of Colin Martindale (1943-2008) and 100 anniversary of Russian formal schools*, 2-4 Dec. 2013. Ed: V.M. Petrov, N.N. Korytin, S. Mastandrea. Ekaterinburg, 2015.
- Mazhul L.A. 2013. The highest creative achievement: quantitative analysis of seasonality of birth. *Study of cultural life: the quantitative aspects. Intern. Sci. Sympos. in memory of Colin Martindale (1943-2008) and 100 anniversary of Russian formal schools*, 2-4 Dec.. Ed: V.M. Petrov, N.N. Korytin, S. Mastandrea. Ekaterinburg, 2015, pp.96-105.
- Mazhul L.A., Petrov V.M. 2014. Faces of romanticism – or maybe something else? Bimodal 'seasonal distributions' in political life. *Rivista di Psicologiadell' Arte.*, Vol.XXXV.
- Mazhul L.A., Petrov V.M. 2015. Faces of romanticism and pragmatism in American political life: Seasons of birth of the highest representatives of both leading parties. *Artistic life: Interdisciplinary Studies: abstracts of Intern. Symp. dedic. to the 25-th Anniv. of Rus. Branch of Intern. Assoc. of Empirical Aesthetics*. Ed. by N. Korytin, V. Petrov, S. Mastandrea. Yekaterinburg, pp.11-16.
- Mazhul L.A., Tyutyunnik V.M. 2014. The two poles of the spiritual realm: seasonal variability (higher creativity, scientific and artistic). *Being taken to infinity: to the centenary of the birth of Boris Viktorovich Raushenbakh*. Ed. E.V. Saiko. Moscow: MFTI, pp.303-336.
- Newsome, D. 1974. *Two classes of men: Platonism and English romantic thought*. NY: St. Martin's Press.
- Simonton, D.K. 1994. *Greatness: Who makes history and why*. NY: Guilford Press.
- Tyutyunnik A.V., Tyutyunnik V.M. 2013. Comparative Analysis of Nobel Laureates by Country and Age. *Reports Scientific Society.*, No.1, pp.20-21.
- Tyutyunnik A.V., Tyutyunnik V.M. 2013. Scientometric Analysis of Nobel Laureates by Country and Age. *Science Prospects.*, No.2(41), pp.92-95.
- Vinogradov, E.S. 1989. The physical factors of intelligence. *Psychology.*, No.6, pp.106-114.
- Wolpert, L. 1992. Gastrulation and the evolution of development. *Development, Suppl.*, pp.7-13.
