

LIFE AND SCIENTIFIC ACTIVITY OF PROFESSOR BRANISLAV M. ŠEVARLIĆ

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SUMMARY: The life and scientific activities of professor Branislav M. Ševarlić are presented.

Professor Branislav M. Ševarlić was born in Belgrade in 1914 in a teacher's family. He finished his primary and secondary education with distinction in his native town. In 1932 he enrolled Faculty of Philosophy of Belgrade University, graduating from its Group of Theoretical Mathematics, Rational and Celestial Mechanics with top honours. In 1937 he joined Belgrade Astronomical Observatory as "astronomical observer". Next year he was appointed assistant for astronomy at the Faculty of Philosophy. In 1948 he took up lecturing Geodetic Positional Astronomy at the Faculty of Civil Engineering of the Belgrade University in successive capacities of: reader, senior lecturer (since 1953), assistant professor (since 1957) and a full professor (since 1961). In 1962 he was engaged as full professor of Astronomy at the Faculty of Sciences of Belgrade University. He retired in 1980, but continued his activity both at the Faculty of Sciences and Belgrade Observatory, involving teaching and researching.

As scientist he developed his activity at the Belgrade Observatory during 35 years until 1972, whether as full time or part time collaborator. He was one of the founders of some Scientific Groups, developing them to the extent that they were accepted

in the corresponding international Services. His activity comprised the Time Service, minor planets observation, star catalogues compilation and founding of the Latitude Service, which in 1956 was included in the International Polar Motion Service. Jointly with Prof. Dr. Z. M. Brkić he tackled the examination of instruments component parts as well as various external effects on the observational results. In addition to lecturing the Geodetic Astronomy at the Faculty of Civil Engineering he held lectures on the subject of instruments. Concerning the latter it may be indicated that in the aftertime there ensued from these lectures several M.S. works and PhD dissertations authored by the attendants to these Ševarlić's courses.

The activity of Prof. Ševarlić might, on the whole, be divided into three categories: 1) Scientific work (research papers, monographs, bibliographies, terminology); 2) Teaching (methodics, university and secondary school textbooks and handbooks); 3) Popularization (public lectures, and books). Considering the large numbers of items in each one of the above indicated Ševarlić's activity fields we confine ourselves to citing only some of them.

1) "A contribution to the examination of variation in the Belgrade Latitude", in Serbian, is his PhD thesis defended at the Belgrade Faculty of Sciences. It is an extensive synthesis of a number of earlier researches completed by additional conclusions. It constitutes a further step in solving the polar motion problem and in the elucidation of the local influences on the results of astronomical observations.

Among his research papers it is difficult to prefer any of them to the others. In the Bibliography following this article one finds listed all of them. One gathers from it that Ševarlić's research activity covered a wide range of subjects, from the elements of circular orbits, interpolation tables, processing of observations made with diverse instruments to subtle analyses, reports pertaining to the activity of working groups. We are going to present only some of them.

"Investigation of the horizontal circle of the WILD T 3 theodolit" is Ševarlić's "habilitation paper" – condition for him to be admitted as lecturer at the Department of Geodesy of the Faculty of Civil Engineering. This study originates from his work on astronomical determination of the Laplacean points. In order to show that WILD T3 theodolit can be used in expeditionary, but nevertheless precise astronomical azimuth determination, the author examined the long – period and random deviations of this instrument's horizontal circle division, establishing the form of their distribution and proposing the procedure of their removal. Described was also a new device for circle division examination with this type of instruments. Being among the first papers dealing with this problem in our country it proved a useful source of guidelines to others engaged in this kind of work.

"Investigation of the zenith refraction effects on the Belgrade latitude variations" (in Serbian), communicated at the Conference of the Union of the Mathematical, Physical and Astronomical Societies of Yugoslavia in 1960, is an analysis of the complex problem of the effects of local conditions on the astronomical observations.

"A project of a new programme for the Observatory's Latitude Service" (Dj. Teleki co-author, in French) presents a new observing and working programme in the study of latitude variations, according to which observations and data treating were carried out. An analysis made at the International Centre of the Polar Motion Rapid Service, showed the new programme to yield more precise results as compared with those obtained previously.

"A programme of determining declination of 36 stars with the zenith telescope" (D. Teleki co-author, in French) in which the idea is put forward of applying zenith telescope in declination determination. It is indicated in the paper that by using observing programme common to both zenith telescope and the vertical circle, possibilities are at hand for subtle comparisons and examination.

"Determination of the aberration constant from the observed Belgrade Observatory's latitude variations" (in French) was a valuable contribution

at the time to the determination of this fundamental astronomical constant.

"The effects of the wind speed and direction on the latitude variations" (in Serbian) provides clarification of the, until then, unexplained deviations in the Belgrade latitude. The agency at work is the wind – its speed and direction, i.e. non-polar factors. A relation between the general atmospheric circulation and zenith refraction was established and shown that the mentioned deviations in the latitude values were complying with it. It was shown that the inclination of the isopicknies (air layers of equal optical density), by windy weather, are not conditioned by the horizontal pressure gradients solely, but also by the temperature. Adequate expressions for both components were given. The wind direction effects on the latitude variations were detached from those of the local horizontal temperature gradients. The difference between the wind effects associated with the evening effects being considerably stronger. Brought to light were also seasonal variations in the wind effects, connected with that in the local horizontal temperature gradients.

"Harmonic analysis of the polar variations in Belgrade latitude" (in Serbian) presents a thorough analysis of the Belgrade instantaneous latitude, covering eight years of observations. A number of empirical regularities in the Chandlerian annual and semi-annual polar motion components were detected. The durations of all the three periods were determined and conclusion drawn that the probability of other components existing, as hinted at in some papers, was very low.

"A method of determining the Earth pole coordinates from observations at one station only" offers a method for approximate determination of these coordinates assuming a circular motion. Taking into consideration that these coordinates ordinarily obtained with a year, or even longer, delay, this expeditious and still sufficiently accurate method can provide useful results for practical purposes.

"Comparison of the old and new programmes of the Observatory's Latitude Service according to the observations made in 1960" (Dj. Teleki co-author, in French) presented at the Symposium dedicated to the 75th anniversary of the Belgrade Observatory, is a preliminary analysis of the observational results obtained in 1960 by applying the new programme of both observation and treatment. The paper shows that the expectations attached to the new programme were validated.

"Variations of the Belgrade latitude from 1949.0 to 1957.0" (in Serbian) is an analysis of papers published during the International Geophysical Year. The emphasis of the paper is on correct investigation and removing of the systematic influences affecting the observations. This was the author's response to the cooperation campaign involved by this international undertaking.

"On the determination of the anomalous refraction from the astronomical observations in the zenith zone" (Dj. Teleki co-author) presents a new method of the refractive anomalies. It met with good reception at the Symposium "Rotation of the

Earth" held in 1971 in Marioka, Japan, where it was communicated.

Prof. Ševarlić's ample experience found its verification in his compilation, jointly with Dj. Teleki and Z. Knežević, of "Epitome Fundamentorum Astronomiae", (135), (136), (152), (169) containing precious data on all the star catalogues ever issued during history.

Alone, or in cooperation with his colleagues he is the author of several monographs and review articles. Jointly with P. M. Djurković and Prof. Z. M. Brkić he determined in 1947 Belgrade Observatory's latitude. He analysed the problem of the latitude variations and the motion of the instantaneous pole on the Earth's surface and published his results in a monograph form. The monograph is supplied with a comprehensive list of all important articles, more than 1770 of them, on this subject. The introduction to the monograph was written by N. Stoyko, head of the International Time Service and International Latitude Service, praising this work and judging it as an important contribution to the astronomical field concerned.

"Variations of the Belgrade Observatory's latitude between 1949 and 1957" is an extensive monograph in which a large number of observations with the zenith telescope, made by the author and his co-workers during eight years are analysed and processed. Examined were systematic deviations having their origin in the instrument, observer and star positions, two methods of treating having been applied in each instance. By being among the first of the kind in our literature, this work may be qualified as occupying a separate place.

It is known that well founded and well worked out methodics is essential for the teaching to be orderly performed. Ševarlić proved himself to be a match for this activity too. As early as 1949 he published two articles on this subject: "Why and how astronomy is to be taught in the secondary schools" and "On the practical work as component part of the secondary school teaching". Thereafter followed also "Methodics of astronomy lecturing" in which an analysis is given on Nabokov's book of the same title, as well as other articles treating the same subject.

In this connection it should be indicated that Prof. Ševarlić was a member of the boards dealing with the astronomy curricula in the secondary schools, struggling for astronomy to be kept as a teaching subject, having regard to it being at times suppressed. Ševarlić's further contribution in this field is his translation from Russian of the textbook "Astronomy for Secondary Schools" by M. E. Nabokov and B. A. Vorontzov-Vel'yaminov.

Thereto belongs also his translation and editing, jointly with S. Sadžakov, "Astronomy for Gymnasium Third Grade" by B. A. Vorontzov-Vel'yaminov. Later on, jointly with M. Vukićević-Karabin and S. Sadžakov he wrote "Astronomy for Gymnasium Fourth Grade". In 1980 he authored another textbook for the same class of users. One is entitled to infer that many generations of the secondary school pupils in this country received their basic notions from the realm of the most ancient science thank also to Ševarlić.

As a university teacher Ševarlić published a number of textbooks. He began by translating from

Russian "Spherical and Practical Astronomy for University Students" by K. A. Tsvetkov and I. F. Polak. There followed the translation of "Practical Astronomy for University Students" by S. N. Blazhkov. Jointly with Z. M. Brkić he authored "Geodetic Astronomy, Book I" and subsequently also "General Astronomy", which are valuable contribution to the astronomy teaching basis at the Belgrade University.

Ševarlić took on himself to provide the complement to the Milanković's "History of Astronomical Science from its Earliest Beginnings to 1727". Thus appeared his "Short History of Astronomy from Newton to our Days" which was translated into Slovenian.

Among the essential elements in performing the scientific activity, actually one of its prerequisites, is precise, clear, unambiguous terminology. Ševarlić was active in this field too. It found its expression in "Serbian Astronomical Dictionary", which is in fact an extension of, and an addition to, Kleczek's multilingual astronomical dictionary. It is still unfinished, in manuscript form, awaiting younger colleagues to complete it. Into this category belongs also Ševarlić's "Encyclopedia of Modern Astrophysics", comprising over 600 pages, the final shape of which should be the task of his successors.

The teaching to be complete requires various expedients, e.g. handbooks which offer what the textbooks do not, rendering thereby precious help to students. Prof. Ševarlić here too was a man of action. Jointly with S. Sadžakov he published the "Astronomical Atlas" comprising the following chapters: Astronomical Instruments, Astronomical Observatories, Famous Astronomers, Aspect of Constellations, Motion of the Earth, Shape and Size of the Earth, Moon, Planets, Comets and Meteors, the Sun, the Stars, Interstellar matter, Star Clusters and Associations, Galaxies and Cosmology.

Prof. Ševarlić was, as already stated, also a devoted popularizer of astronomy. He delivered numerous public lectures at various people's and workers' universities, as well as over radio and TV. As lecturer he displayed particular ability so that many an attendant to his lectures turned enthusiast for astronomy thanks to him.

In addition to popular lecturing Ševarlić published a number of booklets dealing in a popular way with particular astronomical subjects such as "About the planet we live on", "How time was measured", "A voyage through the solar state", "The way of exploring the universe" etc. To this category belong also many articles Ševarlić published in our popular magazine "Vasiona" (Universe), e.g. "Dark cosmic matter", "What non-astronomers have discovered in astronomy", "Milanković's astronomical discoveries" etc.

As a recognized expert Ševarlić was repeatedly elected member of various boards set up in connection with elaboration of curricula, publishing encyclopedias, collection of papers and proceedings.

Upon his joining the Faculty of Sciences he was, in 1962, elected Head of Astronomical Department and subsequently, after a reorganization, Head of the Institute of Astronomy. There he was one of the su-

pervisors in the post-graduate studies in astronomy. He initiated also the issuing of the periodical "Publications of Astronomical Department" in which scientists from both the country and abroad published their papers.

While still a student he was elected Vice-President of the Society of Mathematics Students. He is one of the initiators of starting the periodical "Vesnik" ("Messenger"), subsequently turned into "Vesnik Društva Matematičara, Fizičara i Astronoma" ("Messenger of the Society of Mathematicians, Physicists and Astronomers"). Several times he was elected member of the Board of the Society of Mathematicians, Physicists and Astronomers of Serbia and for one term a member of the Editorial Board of the same Society. He was also a member of the Belgrade University Working Council, of the Board of Managers of the Society of amateur astronomers "Rudjer Bošković", of which he was one of the founders, of the Editorial Board of the periodical "Nastava

matematike i fizike" ("Teaching of Mathematics and Physics"), "Publications of the Astronomical Observatory of Belgrade", "Zbornik radova Geodetskog instituta" ("Collection of Works of the Geodetic Institute") and "Vasiona" ("Universe") (for some time its editor in chief). He was also a member of the Council of the Belgrade Observatory, Faculty of Civil Engineering, Faculty of Sciences, as well as of other bodies, assemblies etc. For years he was a member of the Yugoslav National Committee of Astronomy, its Chairman from 1975 to 1980. Twice he was elected Head of the Department of Mathematics, Mechanics and Astronomy of the Faculty of Sciences.

In 1955 he became a member of the IAU Commission 19 – Rotation of the Earth, in 1957 of the Commission 8 – Positional Astronomy and of Commission 46 – Teaching of Astronomy.

For his devoted work he received several public recognitions. He was awarded the Order of Labour with Red Flag.

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ЖИВОТ И НАУЧНА АКТИВНОСТ ПРОФ. ДР БРАНИСЛАВА М. ШЕВАРЛИЋА

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