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*Српски астрономи у индексу научних цитирања
у XX веку - Serbian Astronomers in Science
Citation Index in the XX Century*

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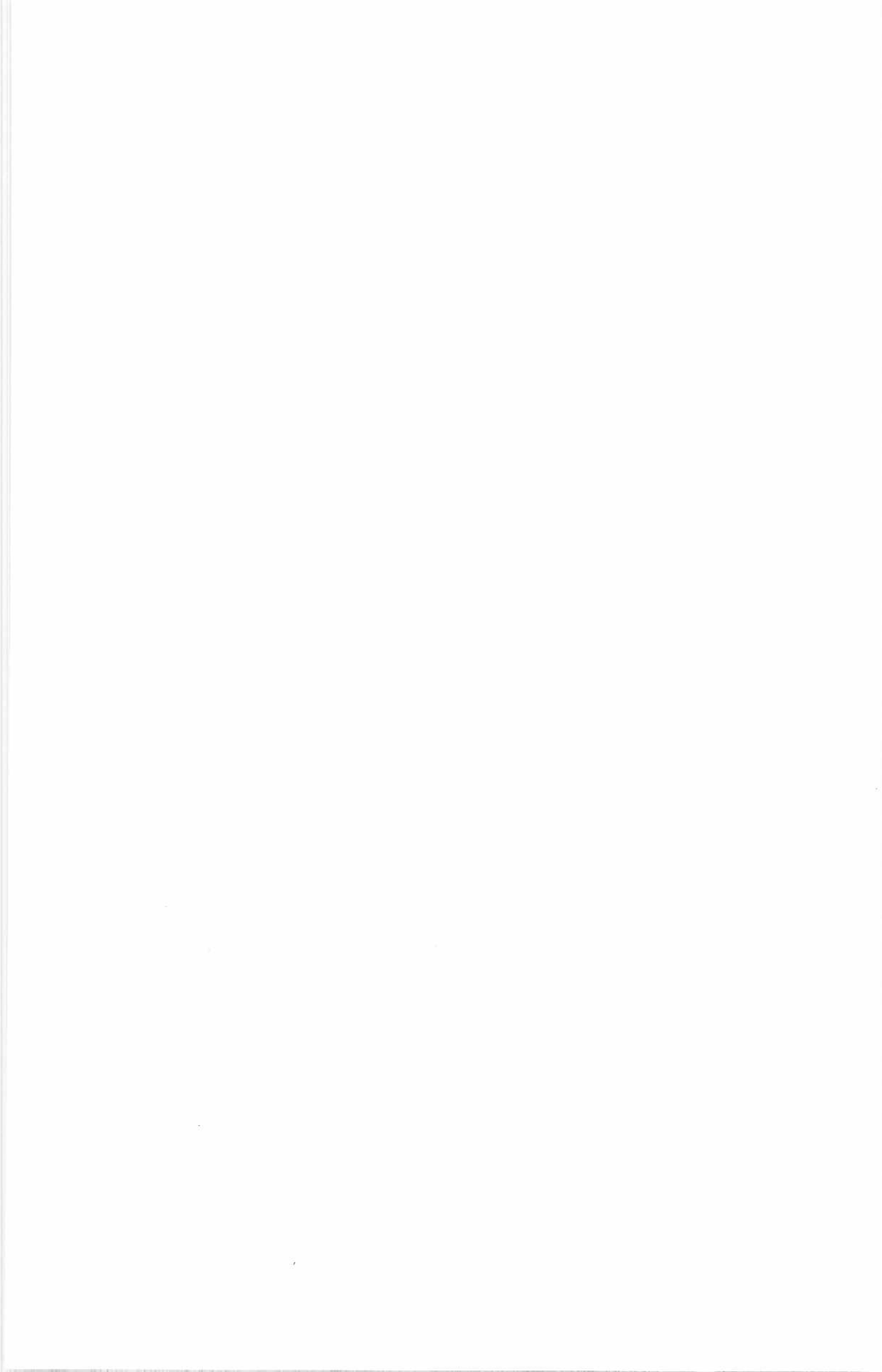
**Српски астрономи у индексу
научних цитата у XX веку**

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**Serbian Astronomers in Science
Citation Index
in the XX Century**



Задужбина Андрејевић



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САЖЕТАК

У књизи је приказано присуство радова српских астронома, као и оних које су остали наши научници објавили у астрономским часописима, у "Индексу научних цитата" (Science Citation Index - SCI) у периоду од 1945. године закључно са 2000. Наведена је и библиографија радова нађених у SCI и понуђена листа од 38 оних, који су имали одређени утицај на развој астрономске науке у двадесетом веку.

Такође је дат и краћи историјски преглед развоја астрономије у Србији у прошлом веку. Посебна пажња посвећена је Астрономској опсерваторији у Београду, најважнијој установи у Србији, која се бави овом науком. Она је исто тако један од најстаријих научних института и једини самостални астрономски, те му је историја важан део процеса развоја науке и културе на овим просторима.

У књизи је сажето изложена историја универзитетске наставе астрономије у Србији после другог светског рата, пре свега развоја Катедре за астрономију Математичког факултета у Београду, а поменут је и наставно педагошки рад у овој области на универзитетима у Новом Саду, Нишу и Крагујевцу.

Осим професионалне астрономије у Србији је развијена и аматерска. Нагласак је овде стављен на највећу и најстарију организацију астронома аматера у Србији, Астрономско друштво "Руђер Бошковић" из Београда, основано 1934. Осим њега, ту су и Астрономско друштво "Нови Сад" - АДНОС и Истраживачка станица "Петница". У ваљевском друштву истраживача "Владимир Мандић - Манда", активна је и астрономска група. На Природно - математичком факултету (Институт за физику) у Крагујевцу, налази се "Белерофонт" опсерваторија. Крајем шездесетих и почетком седамдесетих година, у Нишу је деловала подружница Астрономског друштва "Руђер Бошковић, а на Филозофском факултету је у раздобљу 1976 - 1980. године постојало "Астро-геофизичко друштво". Тамо је 1996. основано Астрономско друштво "Алфа". Године 1996. и Зрењанин је добио организацију астронома аматера, Астрономско друштво "Милутин Миланковић".

У књизи се налази и списак изабране литературе о историји астрономије код Срба у XX веку.

Кључне речи: астрономија, Астрономска опсерваторија у Београду, Катедра за астрономију у Београду, аматерска астрономија, астрономска друштва, Астрономско друштво "Руђер Бошковић", историја астрономије код Срба, вредновање научног рада, индекс научних цитата, српски астрономи, метод Индекса цитата, настава астрономије

ABSTRACT

The presence of works of Serbian astronomers and works in astronomical journals published by other Serbian scientists, in Science Citation Index within the period from 1945 up to the end of 2000, has been analyzed. Also is presented the list of 38 papers which had some influence on the development of astronomy in the twentieth century.

A review of the development of astronomy in Serbia in the last century is given as well. Particular attention is payed to the Astronomical Observatory, the principal astronomical institution in Serbia, where it is one of the oldest scientific organizations and the only autonomous astronomical institute. Its past development forms an important part of the history of science and culture in these regions.

In the book is also considered and the history of the university teaching of astronomy in Serbia after the second world war. First of all the development of the Chair of Astronomy at the Faculty of Mathematics in Belgrade, but also the teaching of astronomy at University in Novi Sad, Niš and Kragujevac is discussed.

In addition to professional Astronomy, well developed in Serbia is also the amateur Astronomy. In the review is first of all included the largest and the oldest organization of amateur-astronomers in Serbia, founded in 1934. Besides, here are the Astronomical Society "Novi Sad", ADNOS and Research Station "Petnica".

In Valjevo, within the framework of the Society of researchers "Vladimir Mandić - Manda", there is active also the Astronomical Group. In Kragujevac, on the roof of the Institute of Physics of the Faculty of Sciences, there is the "Belerofont" Observatory. In Niš, at the close of the sixties and the start of the seventies, there was operating a branch of the Astronomical Society "Rudjer Bošković", while at the Faculty of Philosophy there existed in the period 1976-1980 the "Astro-Geophysical Society". In the year 1996 there was founded Astronomical Society "Alpha". In 1996 Zrenjanin too got an organization of amateur astronomers, Astronomical Society "Milutin Milanković".

Moreover, in the book is given a selected bibliography of references concerning the history of astronomy among Serbs in XX century.

Key words: astronomy, Belgrade Astronomical Observatory, Department of astronomy in Belgrade, amateur astronomy, astronomical societies, Astronomical society "Rudjer Bošković", History of Serbian astronomy, evaluation of scientific work, Science Citation Index, Serbian astronomers, citation index method, teaching of astronomy

УВОД

У књизи је приказана библиографија оних радова српских астронома¹, као и радова објављених у астрономским часописима и публикацијама других наших научника, који су у двадесетом веку цитирани у међународним часописима и публикацијама које обрађује *Science Citation Index*. Обрађен је период обухваћен у *Science Citation Index*-у и то од 1945. закључно са 2000. Најстарији рад у библиографији, који је цитиран у периоду од 1945, је рад под бројем један Милутина Миланковића из 1908.

Посебну тешкоћу приликом рада на овој публикацији претстављале су разне верзије имена наших аутора у цитатима због грешака или различитог начина на које их аутори који цитирају пишу. На пример презиме Милутина Миланковића јавља се као Milankovic, Milancovic, Milankovich, Milankovitch, Milankovitsch и Milankowich. У ову библиографију су ушли радови истраживача који су стварали на Астрономској опсерваторији и на Катедри за астрономију Универзитета у Београду и прегаоца из других научних области, објављени у астрономским часописима. И поред настојања да укључимо све ауторе, као и да идентификујемо одговарајуће радове, вероватно да има и пропуста па смо на свакој допуни унапред захвални.

У "науци о науци", коју зову и "наукометрија" или "сцијентометрија", у поређењу са методом бројања публикација, поузданији је и са већим могућностима метод бројања цитата (нпр. Хајтун 1983, Garfield 1992), али је због више података по публикацији, тежи за примену. Показано је (види Хајтун, 1983 и наведене референце), да је број цитата један од индикатора *квалитета* научног рада, његове *вредности*, *значаја*, *користи* и *важности*. Метод Индекса цитата занимљив је и за историчаре науке, који на основу њега могу да идентификују најзначајније ауторе, дела, као и различите формалне и неформалне групе, тимове па и институције. То је такође показатељ *индивидуалног доприноса науци* одређеног научника и његовог *престижа*. Подаци о цитираности указују на радове, које сматрају важним управо научници активни у датој научној области (Garfield 1992). Треба ипак водити рачуна да је то статистички метод и да су његови резултати утолико поузданији уколико је испитивана група већа и уколико сваки њен поједини члан има више цитата.

Овај метод омогућује да се из великог броја стваралаца издвоји мали скуп у коме ће концентрација значајних научника бити велика. Као добро поређење може да послужи пријемни испит на факултету чији је циљ да међу свршеним средњошколцима издвоји оне за које се очекује да ће студирати у просеку успешније од других. При том, нико не сматра да би последњи на

¹ Као што је уобичајено у свету, под "српским астрономима" подразумевамо све оне који су бар део свога живота провели радећи у Србији.

списку оних који су прошли био способнији и бољи студент од првог међу онима који су пали.

Циљ ове књиге је да се стекне увид у квалитет, значај и утицај научних достигнућа српских астронома у двадесетом веку. Уз то да се омогући историчарима науке и другим истраживачима, који се баве планирањем и организовањем развоја науке, одређивање појединих квантитативних индикатора развоја наше астрономије. Зато овде дајемо библиографију радова присутних у *Science Citation Index*-у, српских астронома и научника који су објављивали у астрономским часописима.

Назначимо овде узгред, да подаци понуђени у књизи садрже елементе који могу послужити као основа за сагледавање резултата планирања, улагања и организације научног рада у овој области у минулом периоду, што отвара перспективе успешније пројекције будућег развоја.

ЛИТЕРАТУРА

- Garfield, E., Welljams-Dorof, A.: 1992, *Science and Public Policy*, 19 (5), 321.
Хайтун, С.Д.: 1983, *Наукометрия, состояние и перспективы*, Наука, Москва.

INTRODUCTION

In this book, bibliography of serbian astronomers¹ works, as well as works in astronomical journals of other scientists, cited in the twentieth century in international journals, and other publications covered by the *Science Citation Index*, is given. The period taken into account in *Science Citation Index*, namely from 1945 concluding with 2000, is considered. The oldest work in the bibliography, which has been cited during the period beginning with 1945, is the paper of Milutin Milanković from 1908, given under number one.

Especial difficulty during the work on this publication, represented different versions of our authors names in citations, not only due to misprints, but also due to different ways how citing authors write them. For example, the family name of Milutina Milanković is present as Milankovic, Milancovic, Milankovich, Milankovitch, Milankovitsch and Milankowich. In this bibliography are included works of persons working at Astronomical Observatory and at the Department for Astronomy on Belgrade University, but also papers of persons working in other sciences, published in astronomical journals. In spite of my efforts to include all persons, and to identify the corresponding articles, certainly all possible persons and articles are not included and I am grateful in advance for each addition.

In the "Science about science" called also "Scientometry", in comparison with the method of publications counting, better possibilities and higher reliability has the citation counting method (see e.g. Hajtun 1983, Garfield 1992). However, due to much larger number of data per publication, it is more difficult for mass usage. It has been shown (see Hajtun, 1983 and references therein), that the citation number is an indicator of the *quality* of scientific work, its *value*, *significance*, *utility* and *importance*. The science citation index method is of interest and for historians of science, in order to identify the most important authors, works, as well as different informal groups, teams and institutions. It is as well an indicator of the *individual contribution to the science* of a scientist and of his *prestige*. The data on citations point on the works considered as important by scientists which are active in the given research field (Garfield 1992). However, it should be taken into account that this is a statistical method and its results are more reliable if the examined group is larger and if the every particular member of the group has more citations.

This method enables to select from a large number of scientists, a small group where the concentration of important scientists will be large. As a good comparison could be taken the exam to join a faculty, which objective is to select from a group of persons an elite group with an expectations to study more successfully in average than the rest. Here nobody will conclude that the last one

¹ As usually, as "serbian astronomers" are assumed those which at least some period of his life worked in Serbia.

on the list of persons who passed the exam, will be more successful student than the first on the list of persons which have not passed.

The aim of this book is give an impression of the quality, importance and influence of the scientific achievements of serbian astronomers in the Twentieth century. Also to enable to historians of science and other researchers working on the planing and organisation of the scientific activities, the determination of particular quantitative indicators of the development of our astronomy. Consequently, here is given the bibliography of serbian astronomers works, as well as works in astronomical journals of other scientists, present in the twentieth century in the *Science Citation Index*.

The data provided in this book may be used also to analyze results of planning, investments and organization of scientific work in this research field during the past period, which may be used for an more successful projection of the future development.

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- Garfield, E., Welljams-Dorof, A.: 1992, *Science and Public Policy*, **19** (5), 321.
Хайтун, С.Д.: 1983, *Наукометрия, состояние и перспективы*, Наука, Москва.

АСТРОНОМИЈА У СРБИЈИ У XX ВЕКУ

МИЛАН НЕДЕЉКОВИЋ И ОСНИВАЊЕ АСТРОНОМСКЕ ОПСЕРВАТОРИЈЕ И КАТЕДРЕ ЗА АСТРОНОМИЈУ

Најважнија астрономска институција у Србији је Астрономска опсерваторија у Београду, једна од најстаријих научних установа и једини самостални институт такве врсте, а историја њеног развоја је важан део процеса развоја науке и културе на овим просторима. Акт о оснивању, потписао је министар просвете и црквених дела Краљевине Србије Милан Кујунџић, 26. марта (7. априла) 1887. године, а Милан Недељковић је одређен за првог управника Астрономске и метеоролошке опсерваторије.

Недељковић, првог маја 1887. године, почиње са радом у Провизорној опсерваторији у закупљеној кући породице Гајзлер. Ту је она радила до првог маја 1891. године, када се преселила у, за то време довршену, сопствену зграду, данашњу Метеоролошку опсерваторију у Карађорђевог парку, где се у мањем музејском простору, од прославе стогодишњице оснивања 1987. године, налази једна соба посвећена почецима астрономске науке у Србији.

На челу Опсерваторије, Недељковић је од 26. марта (7. априла) 1887. до 30. јануара 1924. године. Изузетак представља само период од 5. јула 1899. до 31. октобра 1900, када је био у пензији из политичких разлога, т.ј. због Ивандањског атентата на краља Милана, што је краљ Александар искористио за обрачун са својим политичким противницима. Док је Недељковић био у пензији, на његовом месту је Ђорђе Станојевић (Неготин, 7. IV 1858 - Париз, 24. XII 1921), први српски астрофизичар, други руководилац Астрономске и метеоролошке опсерваторије, касније ректор Универзитета у Београду. Станојевић, велики популаризатор астрономије и науке уопште, био је један од покретача при увођењу електричног осветљења у Београду, Ужицу, Чачку, Лесковцу и другим местима; градитељ прве српске хидроцентрале; зачетник индустрије расхладних уређаја, иницијатор организовања комитета за «хладноћу» и међународне организације за технику хлађења у Паризу 1903. године. Он је и пионир фотографије у боји у Србији.

Осим значаја за метеорологију, Астрономска и метеоролошка опсерваторија Милана Недељковића, колевка је и сеизмолошких и геомагнетских истраживања код Срба. Крајем 1903. године, позајмљује инструменте за геомагнетска мерења од Теге Миклош Конколија, оснивача

Астрономске опсерваторије у Будимпешти, и гради земномагнетски павиљон. Захваљујући Конколију, Недељковић 1903. добија и сеизмограф, који следеће године поставља у посебан павиљон. Посматрања се обављају редовно и за ове потребе 1906. године подиже се на Ташмајдану зграда данашњег Сеизмолошког завода. Ову активност преузима Недељковићев помоћник Јеленко Михајловић (Врбица, 11. I 1869 - Београд, 10. X 1956), који од 1896. ради на Опсерваторији.

За време друге аустроугарске окупације, у Првом светском рату, Опсерваторију води Виктор Конрад, који је дошао из Беча. Приликом бекства из Србије, Аустријанци су однели или уништили све инструменте. Захваљујући огромном залагању и стручности, Милан Недељковић успева да после рата, на име ратних репарација, набави у Немачкој телескопе и пратећу опрему за нову опсерваторију.

Инструменти које је набавио Недељковић, били су једина посматрачка база Опсерваторије, иако су неке у II светском рату однели Немци, два су пребачена у Љубљану, два у Загреб (види Ђурковић, 1968), а неки мањи нису постављени.

Данас су у павиљонима следећи инструменти које је набавио Недељковић:

1. Велики рефрактор - екваторијал ZEISS 650/10550 mm.
2. Сунчани спектрограф (монохроматор), типа LITTROW, 9000mm/100,000, изграђен адаптацијом екваторијала ZEISS 200/3020 mm са две астрокамере TESSAR и PETZVAL 160/800 mm.
3. Велики пасажни инструмент ASKANIA 190/2578 mm са системом вакуумских мира.
4. Велики вертикални круг ASKANIA 190/2578 mm.
5. Астрограф ZEISS 160/800 mm.
6. Фотовизуелни рефрактор ASKANIA 135/1000 и 125/1000 mm.
7. Зенит телескоп ASKANIA 110/1287 mm.
8. Пасажни инструмент BAMBERG 100/1000 mm.

Велики меридијански круг ASKANIA 190/2578 mm, изгорео је 11. маја 1999. у току ваздушног напада НАТО агрессора.

Док је Недељковић улагао напоре за добијање нове Опсерваторије на којој би били постављени набављени инструменти и почела астрономска посматрања, изненада је пензионисан 30. јануара 1924. године. Одлуком Факултетског савета, те године се Опсерваторија дели у две посебне установе: Метеоролошку и Астрономску опсерваторију Универзитета у

Београду. Истовремено и Катедра за астрономију се одваја од метеорологије, као посебна катедра на Филозофском факултету.

ИЗГРАДЊА НОВЕ АСТРОНОМСКЕ ОПСЕРВАТОРИЈЕ И ЊЕН РАЗВОЈ

На чело Астрономске опсерваторије, 1925. бива постављен Војислав Б. Мишковић (Фужине, 18. I 1892 - Београд, 25. XI 1976), који је у то време афирмисани астроном запослен на опсерваторији у Ници.

Студије астрономије започео је у Будимпешти и Гетингену пред Први светски рат, а после демобилисања крајем 1918. године, послат је у Француску да их заврши. Дипломирао је 1919. године и постављен је за асистента Астрономске опсерваторије у Марсељу. У Ници ради као астроном од 1922. године, а 1924. докторира на Универзитету у Монпељеу. Године 1925. добио је награду Француске академије наука за студије из звездане статистике. У француским научним часописима, у периоду од 1919. до 1925. године, објављује двадесетак радова, посвећених посматрањима малих планета и комета као и одређивањима њихових путања.

У Београд долази 1926. године и осим Астрономске опсерваторије, преузима и Катедру астрономије. Када је 1927. установљена посебна студијска група за астрономију, добила је назив III група наука, а најважнији предмети су били *Теоријска и практична астрономија, Небеска механика, Теоријска математика, Рационална механика, Физика и Метеорологија*. Мишковић је изабран за ванредног професора *Теоријске и практичне астрономије* на Филозофском факултету. Године 1929. постао је и дописни члан Српске краљевске академије, а 1939. године редовни. Он у знатној мери активност установе усмерава ка математичко-нумеричким пословима, који дају више вредних резултата. Значајни су нумерички радови везани за *Математичку климатологију* Миланковића и Мишковићеве *Прецесионе таблице*.

Мишковић 1929. успева да добије средства за изградњу нове, модерне опсерваторије, 6 км југоисточно од Теразија, на површини од 4.5 ха, на koti 253 м, на брду Велики Врачар, које од тада, као и читав део града, носи назив Звездара.

Изузетан и веома вредан архитектонски комплекс Астрономске опсерваторије, пројектовао је Јан Дубови, члан Групе архитеката модерног правца (ГАМП) основане 1928. године. Захваљујући управо овом остварењу, Јан Дубови је у Прагу проглашен за доктора наука. Грађевински радови извођени су од 1930. до 1932, а током наредне две године монтирани су инструменти.

Мишковић започиње и са издавањем научног часописа *Mémoires de l'Obs. Astr. Belgrade* (штампано пет свезака за 1932, 1933, 1936, 1938. и 1949); *Annuaire de l'Observatoire Astronomique de Belgrade* (издато шест свезака за 1929. - 1934. године), који је садржао звездано време и краткoпериодичне чланове нутације, средње и привидне положаје 189 звезда, ново-откривене астероиде и објашњења за употребу; а покренуо је и *Наутички годишњак*, (излазио од 1934. до 1941) за потребе навигације у морнарици, као и *Годишњак нашег неба*, астрономски календар на српском језику (од 1930. до 1941. и од 1948. до 1952. године; број за 1948. годину уредио је Ф. Доминко, а за 1949, 1950. и 1951. годину Божидар Поповић).

Уз помоћ Милорада Протића, Мишковић 1936. организује Службу малих планета и посматрања Сунца. Исте године П. Ђурковић открива на опсерваторији у Иклу (Uccle - Белгија), малу планету (планетоид, данас се обично употребљава назив астероид) која касније добија име 1605 Миланковић а М. Протић у Београду, још једну, названу 1564 Србија, чиме започиње рад на проналажењу оваквих објеката. Сарадници Опсерваторије су укупно открили 43 мале планете, од којих су 12 добиле име а у три случаја је ауторство накнадно приписано другим .

Осим мале планете 1564 Србија, Протић је добио право да да и имена 1517 Београд, 1550 Тито, 1554 Југославија, 1605 Миланковић, 1675 Симонида, 1724 Владимир (по унуку М. Протића Владимиру Бенишеку), 2244 Тесла и 2348 Мишковић. Ђурковић их је открио пет у периоду од 1936. до 1941. године а име је дао астероиду 1700 Звездара. Године 1980, Зоран Кнежевић (који на Астрономској опсерваторији ради од 1974. године) открива на фотоплочама, које су по његовом упутству снимљене : а опсерваторији Piszkestető у Мађарској, четири оваква објекта од којих један добија име 3276 Paolicchi, по његовом сараднику из Италије. У знак почаст, једној малој планети је 1991. додељено име 3900 Кнежевић, према овом астроному. За српски народ је везана и мала планета 1555 Дејан названа по сину П. Ђурковића. Један овакав објекат добио је и име 22278 Протић, што је објављено 30. децембра 2001.

Мишковић 1936. покреће *Bulletin de l'Observatoire astronomique de Belgrade*, научни часопис који од броја 145 за 1992. годину излази под именом *Bulletin astronomique de Belgrade*, а од броја 157 за 1998. годину као *Serbian Astronomical Journal*. Уредници овог часописа били су В. В. Мишковић (за године 1936 - 1940, 1943 - 1948. и 1952 - 1956); М. Б. Протић (за године 1941 - 1942, 1955 - 1960, као и 1971-1975); Б. Поповић (за годину 1950); В. Осакањан (1964); П. М. Ђурковић (за године 1964 - 1970); М. Мијатов (бројеви 127 - 131, 1976 - 1981); Д. Зулевић (132 - 133, 1982 - 1983); Ђ. Телеки (134 - 136, 1984 - 1986) и М. С. Димитријевић (137 - 165, 1987 - 2002).

Од јула 1941. године на Опсерваторији се налази немачка војска. Приликом борби за ослобођење Београда, нарочито су тешко оштећени централна зграда, зграда резервоара за воду и павиљон Великог рефрактора. После рата Мишковић остаје на дужности директора до марта 1946. када подноси оставку, прихваћену тек маја 1948. године.

Перо М. Ђурковић, као уредник, 1945. покреће стручни часопис *Астрономска и метеоролошка саопштења*, који Астрономска опсерваторија објављује од 1945. до 1950. године (7 бројева). Ту се 1947. године започиње и са серијом издања *Публикације Астрономске опсерваторије у Београду*. На месту главног и одговорног уредника били су В. Оскањан (бр. 10); П. М. Ђурковић (бројеви 12-16); М.Б. Протић (17-19, 21-22); Ђ. Телеки (20, 26, 32, 34, 35); М. Мијатов (24, 25, 27-31); Г.М. Поповић (33) и М.С. Димитријевић (36-74).

Када је маја 1948. године прихваћена оставка Војислава Мишковића, за директора Опсерваторије бива именован академик Милутин Миланковић (Даљ, 28. V 1879 - Београд, 12. XII 1958), који је у историју науке ушао пре свега зато што је објаснио појаву ледених доба спорим променама у осунчавању Земље услед различитих утицаја који мењају нагиб њене осе и карактеристике кретања око Сунца. Он је растумачио и историју климе на нашој и другим планетама и творац је математичке теорије климе и теорије о померању Земљиних полова. Миланковић је у Београд дошао из Беча, на позив Београдског Универзитета, где је 1909. изабран за професора *Небеске механике*. Овај предмет је предавао све до пензионисања 1955. године. Управа Опсерваторије поверена је Савету, на чијем челу је директор и председник овога органа Милутин Миланковић, а чланови су Антон Билимовић, Војислав Мишковић и Павле Савић (Поповић 1951). Миланковић на овом положају остаје до 26. јуна 1951.

Перо Ђурковић организује 1951. Службу двојних звезда која касније постаје група. У њој је до данас откривено више стотина нових двојних и вишеструких звезда, чему је највећи допринос дао Георгије Поповић, који је ту од 1960.

Исте године Василије Оскањан установљава Службу променљивих звезда. На овом послу му се придружују Александар Кубичела и Јелисавета Арсенијевић, (која на Опсерваторији ради од 1956) чиме започиње динамичан развој астрофизичких истраживања, усмерених касније на физику звезда, Сунца и астрономску спектроскопију. У почетку развија се фотометрија еруптивних звезда, а после 1959, када се Василије Оскањана вратио са специјализације у Совјетском савезу, почиње рад у области полариметрије еруптивних звезда. Формално, Група за астрофизику је основана 1960. године.

Од 26. VI 1951. до 27. III 1954. године директор Опсерваторије је поново В. Мишковић. После његовог одласка у пензију, на челу ове установе је М. Протић у функцији заменика директора, а од 21. XI 1956. до 21. XI 1960. године као директор.

После М. Протића руководилац постаје Василије Оскањан, прво 1960. као вршилац дужности а од 1964. до 1965. као директор. После њега, од 9. VII 1965. до 1970. директор је Перо Ђурковић, када на овај положај, у периоду од 1971. до 1975. опет долази М. Протић. Од 1975. прво као вршилац дужности а од 13. VII 1977. до септембра 1981. у функцији директора, на челу установе је Милан Мијатов (Београд, 3. VII 1933 - Београд, 19. XI 1996). Опсерваторијом управљају од 1982. до 1989. Миодраг Митровић, од 1990. до 1993. Иштван Винце, а од 21. XI 1994. до 1. VII 2002. Милан С. Димитријевић.

У присуству бројних државника и еминентних гостију из земље и иностранства, у Скупштини Србије је 1987. прослављена стогодишњица оснивања Опсерваторије. Поводом овог јубилеја у Београду су одржане три међународне и једна југословенска научна конференција, и то Колоквијум 100 Међународне астрономске уније "Фундаментална астрометрија" (8-11. IX - председник Научног комитета Н. Eichorn из Gainsville-a USA), Међународни скуп о астрономској рефракцији посвећен успоми на Ђ. Телекија, председника Радне групе за астрономску рефракцију Међународне астрономске уније (3-4. IX – председник Научног комитета В. Миловановић), Други међународни скуп о катастрофалним сударима малих тела Сунчевог система (8-11. IX - председник Научног комитета, V. Zappala, Италија) и Други семинар "Астрофизика у Југославији" (8-10. IX - председник Научног комитета М. Димитријевић). Поводом прославе стогодишњице, у старој згради Опсерваторије у Карађорђевог парку, отворен је мали музеј у коме је једна соба посвећена развоју Астрономске опсерваторије.

Реорганизација унутрашње структуре Опсерваторије извршена је 1994. године, тако да се формирају Одсек за астрофизику, Одсек за динамичку астрономију и Одсек за астрометрију.

Опсерваторија учествује 1995. године у организацији Међународне руско - југословенске конференције "Њукомб и фундаментална астрометрија" у Ст. Петербургу, I мађарско - југословенске конференције у Баји, I румунско – југословенског округлог стола о сарадњи у астрономији у Темишвару и организује I југословенску конференцију о облицима спектралних линија у Криваји.

Следеће године Опсерваторија организује II југословенско - румунски округли сто о сарадњи у астрономији у Београду и астрофизичку секцију на

XVIII међународном симпозијуму о физици јонизованих гасова у Котору. Такође учествује у организовању I белоруско - југословенске конференције о физици и дијагностици лабораторијске и астрофизичке плазме у Минску. Сарадници излажу своје резултате на 13 међународних конференција и 6 националних, објављују 129 библиографских јединица, од којих су 16 у најреномиранијим међународним часописима, држе шест уводних предавања на међународним конференцијама и четири на националним. Астрономска опсерваторија је у 1996. години штампала четири публикације монографског типа и два броја часописа *Bull. Astron. Belgrade*.

У оквиру прославе 110 годишњице ове установе организује се 1997. научна конференција "Развој астрономије код Срба". Опсерваторија такође учествује и у припремању III румунско - југословенског округлог стола о сарадњи у астрономији у Клужу, као и II југословенске конференције о облицима спектралних линија у Белој Цркви. Сарадници приказују своје резултате на 13 међународних конференција и четири националне и објављују 152 библиографске јединице, од којих су 11 у врхунским међународним часописима. Осим тога, сарадници Опсерваторије одбранили су и две магистарске тезе. Као и 1996, у 1997. су објављене четири публикације и два броја часописа *Bull. Astron. Belgrade*.

Током 1998, публиковано је 154 библиографских јединица и то 19 у познатим међународним научним часописима. Сарадници Опсерваторије су на међународним конференцијама одржали пет прегледних предавања и оних по позиву, као и једно на националној. Четири прегледна рада и монографских прилога објављено је у националним публикацијама. Сарадници Опсерваторије учествовали су у раду 16 научних конференција у иностранству (28 боравака од стране 19 сарадника) и на шест конференција у Југославији (61 боравак од стране 28 сарадника). Астрономска опсерваторија организује IV Југословенско - румунски астрономски скуп (Београд 5-8 мај 1998) и II југословенско - белоруски симпозијум о физици и дијагностици лабораторијске и астрофизичке плазме (Златибор 5-6 септембар 1998). Поред тога, Астрономска опсерваторија учествује у припремању I бугарско - српског астрономског семинара (Белоградчик 6-8 август 1998) и секције Астрофизичка плазма на XIX летњој школи и међународном симпозијуму о физици јонизованих гасова (Златибор 31 август - 4 септембар 1998). Објављене су четири публикације у серији *Publ. Astron. Obs. Belgrade* и два броја *Bull. Astron. Belgrade*. Од 1998. године на Астрономској опсерваторији уведена је интернет веза.

Упркос НАТО агресије на Југославију и губитка Великог меридијанског круга за време ваздушног напада НАТО агресора (11. маја), 1999. године је објављено 112 библиографских јединица од којих су 23 у угледним међународним научним часописима. Сарадници Опсерваторије су

на међународним конференцијама одржали шест предавања по позиву као и пет на националним. Осим тога, одбрањене су и објављене две докторске дисертације сарадника Опсерваторије и једна магистарска теза. Штампани су бројеви 159 и 160 часописа *Serbian Astronomical Journal*, као и бр. 63, 64, 65 и 66 *Publications of the Astronomical Observatory of Belgrade*. Ова издања су редовно слата у 136 институција и библиотека, у 45 земаља, као и у 15 различитих установа у Југославији. Сарадници Опсерваторије присуствовали су на 8 научних конференција у иностранству (9 боравака од стране 8 сарадника) и на 6 у Југославији (35 боравака од стране 22 сарадника). Током 1999. године, Београдска опсерваторија организује или суделује у организацији следећих конференција: III југословенска конференција о облицима спектралних линија (Фрушка гора), 4-6. 10. 1999; XII национална конференција југословенских астронома и Међународна скуп о развоју астрономских база података, Београд, 19-21. 11. 1999 и симпозијум "Миланковић - јуче, данас, сутра", Београд 25-26. 11. 1999. Поред бројних чланака у новинама и учешћа у радио и ТВ емисијама, при чему су сарадници Опсерваторије нарочито објашњавали потпуно помрачење Сунца од 11. августа 1999, они су одржали и 48 предавања са темама из астрономије изван ове институције, богатећи на тај начин културни живот у нашој земљи.

Следеће 2000. године, објављено је 118 библиографских јединица од којих су 14 у водећим међународним научним часописима. Сарадници Опсерваторије су на међународним конференцијама одржали осам предавања по позиву и прегледних извештаја о резултатима свога рада, као и два на националним. Осим тога, одбрањене су и једна докторска дисертација и једна магистарска теза посленика Опсерваторије. Објављен је број 161 часописа *Serbian Astronomical Journal*, као и бр. 67, 68 и 69 *Publications of the Astronomical Observatory of Belgrade*. Ова издања су редовно слата у 130 институција и библиотека у 45 земаља и у 15 у Југославији. Наши истраживачи били су на 13 научних конференција у иностранству (30 боравака од стране 16 сарадника) и на седам у Југославији (39 боравака од стране 17 сарадника). Током 2000. године, Београдска опсерваторија организује или учествује у организацији следећих конференција: III белоруско - југословенски симпозијум о физици и дијагностици лабораторијске и астрофизичке плазме (Минск 17-21. 09. 2000), II српско - бугарске астрономске конференције (Зајечар - Гамзиградска бања 23-26. јун 2000), Школе за младе астрономе "Обрада астрономских фотографија помоћу МИДАС програма" (Петница - Ваљево 21-24. 11. 2000) и секције "Астрофизичка плазма" на XX летњој школи и међународном симпозијуму о физици јонизованих гасова (Златибор 4-8. септембар 2000). Поред 27 чланака у новинама и часописима, 6 интервјуа и учешћа у бројним (више од 20) радио и ТВ емисијама сарадници Опсерваторије су одржали и 61 предавање на астрономске теме изван ове институције.

Треба такође напоменути да је *Serbian Astronomical Journal* доступан преко интернета преко Насиног Astrophysical Data System (ADS), захваљујући љубазности управљача овог система. Адреса је <http://adswww.harvard.edu>. ВОВео. У току 1999. направљена је и интернет презентација Астрономске опсерваторије, а одговарајућа адреса је: <http://www.aob.bg.ac.yu>. Осим тога, почела је да се развија и база података БЕЛДАТА чија је интернет адреса: <http://www.aob.bg.ac.yu/BELDATA>.

На Астрономској опсерваторији на дан 31. децембра 2000. године, био је 41 запослени од којих су 32 астрономи.

Ова установа са столетном традицијом и богатом историјом од великог је значаја за развој не само астрономије већ и метеорологије, сеизмологије и геомагнетских истраживања. Низ славних личности из историје наше науке, везаних за њу, допринели су да достигнућа српских астронома стекну углед у међународној научној јавности, а млади перспективу да се у нашој земљи могу бавити овом лепом и изазовном науком у окружењу које им омогућава да постигну резултате који се могу публиковати и у најпознатијим светским научним часописима.

УНИВЕРЗИТЕТСКА НАСТАВА АСТРОНОМИЈЕ У СРБИЈИ ПОСЛЕ ДРУГОГ СВЕТског РАТА

Настава астрономије на универзитету, има у Србији дужу традицију. Њу су заснивали познати научни посленици, као што су Милан Недељковић и знаменити Милутин Миланковић. На овим добро постављеним основама, касније се развијао наставно – педагошки рад у тој области, на Београдском универзитету. У високо образовање астрономија је у Србији уведена 1884. а први наставник био је Милан Недељковић. Када се 1947. године од Филозофског факултета издвојио Природно - математички, формирана је Катедра за небеску механику и астрономију, али је убрзо променила име у Катедру за механику и астрономију. Њено раздвајање на Катедру за механику и Катедру за астрономију почело је 1960. а завршило се 1962. Реорганизацијом Природно - математичког факултета 1971, Катедра за астрономију постаје Институт за астрономију. Године 1995. долази до поделе Природно - математичког факултета на више њих. На Математичком је остала Катедра за астрономију, која је у новој организацији вратила старо име.

Године 1961. на Катедри су формиране две студијске групе – за астрономију и за астрофизику.

Астрономија се предаје и на Универзитетима у Новом Саду, Нишу и Крагујевцу. На Природно - математичком факултету Универзитета у Новом

Саду од 1986. године постоји у VIII семестру предмет "Астрофизика и астрономија" са два часа предавања и два часа вежби недељно. Предмет је обавезан за студенте који хоће да предају физику у средњој школи а опциони за студенте Примењене физике.

На Филозофском факултету Универзитета у Нишу, на Студијској групи за физику, на смеру Општа физика, од школске 1990/91 до 1993/94, предаван је у VII и VIII семестру предмет "Основи астрофизике" са два часа недељно. Касније, тај предмет две године није био у наставном плану, да би од 1996/97 поново започела предавања, али само у VII семестру са два часа недељно. Осим тога, на Студијској групи за хемију постоји Катедра за гео и космохемију, која се бави и проучавањем метеора и метеорита.

На Природно - математичком факултету Универзитета у Крагујевцу, школске 1998/99 године уведен је предмет "Астрофизика са астрономијом" у VI семестру Наставног смера Групе за физику, са два часа предавања и два часа вежби недељно.

У периоду после Другог светског рата, уочава се динамичнији развој високошколске наставе астрономије, нарочито крајем двадесетог века. То се испољава формирањем студијских група за астрономију ван Београда, у већим универзитетским, научним и културним центрима, као што су Нови Сад, Ниш и Крагујевац.

АМАТЕРСКА АСТРОНОМСКА ДРУШТВА

Поред професионалне астрономије у Србији је развијена и аматерска, што показује шири интерес за достигнућа ове науке. Највећа и најстарија организација астронома аматера је Астрономско друштво "Руђер Бошковић" из Београда (Калемегдан, Горњи град 16, 11000 Београд). Оснивачка скупштина одржана је 22. IV 1934. Први председник био је Ђорђе Николић (1934 - 1936), а други Војин Ђуричић (1936 - 1941), управник Државне хипотекарне банке.

После рата, 9. XII 1951. одржана је оснивачка скупштина Београдског астрономског клуба "Руђер Бошковић" (у саставу Удружења студената Природно - математичког факултета - ПМФ) и за председника је изабран др Радован Данић. С обзиром да је већ 1952. године било 64 чланова од којих већина ван ПМФ, на седници од 23. III 1952. Управни одбор доноси одлуку да се Клуб пререгиструје у Астрономско друштво "Руђер Бошковић". Оснивачка скупштина Друштва одржана је 18. V 1952. а за председника је поново изабран др Радован Данић (1952 - 1966). После њега на овом положају су Бранислав Шеварлић (1966 - 1970), Перо Ђурковић (1970 -

1972), Ненад Јанковић (1972 - 1974), Божидар Поповић (1974 - 1979), Зоран Кнежевић (1979 - 1982) и Милан С. Димитријевић (1982 - 2004).

Друштво заједно са Ваздухопловним савезом Југославије, почиње 1953. године са издавањем часописа за астрономију и астронаутику (данас само за астрономију) *Васиона*. Главни и одговорни уредници били су Ненад Ђ. Јанковић (1953 - 1972), Перо Ђурковић (1973 - 1974), Јелена Милоградов - Турин (1975 - 1982), Бранислав Шеварлић (1983 - 1984) и Милан С. Димитријевић (1985 - 2004).

Залагањем Пере Ђурковића и Радована Данића, Друштво добија просторије у Деспотовој кули на Калимегдану, где је 20. XII 1964. свечано отворена Народна опсерваторија, која са редовним радом почиње јуна 1965. Следећи велики догађај је набавка планетаријума Цајсове производње, који је смештен у старом купатилу - Амаму у Доњем Граду. Са радом почиње 1969. а званично је отворен 27. II 1970.

Оснивачка скупштина Астрономског друштва "Нови Сад" - АДНОС (Јарослав Францисти, Астрономска опсерваторија, Петроварадинска тврђава, 21000 Нови Сад) одржана је 4. марта 1974. Године 1976. купљени су телескопи 20Т Observatory 108/1600mm; 10К 80/1200mm и 14Т 60/900mm, америчке фирме Tasco, а 1991. набављени су и телескопи рефлекторског типа Meade 200/1500mm и 102/1000mm. Адаптација Астрономске опсерваторије на Петроварадинској тврђави завршена је 1989, а 1996. године добијен је и простор за планетаријум. Председник Друштва у периоду 1974 - 1980. године био је Живојин Ђулум, 1980 - 1984. Божидар Јовановић, 1984 - 1998. Ђура Паунић, од 1998. до 1. септембра 2000. Светислав Крстић, а од 1. септембра 2000. Драгослав Петровић.

Код Ваљева у Петници, организација Младих истраживача Србије гради Дом младих истраживача. Ова установа, у почетку рекреативног карактера, постаје Истраживачка станица Петница (Петница, 14000 Ваљево). Са образовним програмима се почиње 1982. године, а први семинар из астрономије одржан је 1983, као припрема за одлазак на Ргајску планину где су вршена астроклиматска снимања. Петница 1988. добија Целестронов телескоп Шмит - Касегреновог типа, пречника објектива 20 cm. Касније, набављени су и Целестронов рефрактор од 102 mm и рефлектор од 33 cm, који је изградио Аљоша Јовановић. Руководиоци семинара астрономије били су Дарко Јевремовић и Силвана Николић, Самир Салим, Никола Божић и Оливер Винце.

Ваљевско Друштва истраживача "Владимир Мандић - Манда" основано 16. фебруара 1969. године, има од 1972. и Астрономску групу (Никола Божић, Бирчанинова 68, П. фак 118, 14000 Ваљево).

На Природно - математичком факултету у Крагујевцу, налази се Белерофонт опсерваторија (Вукота Бабовић, Институт за Физику ПМФ, Сестре Јањић 4, Крагујевац), отворена 20. фебруара 1986. године. Има телескоп Meniskus Cassegrain Spigel 150/2250mm.

У Нишу је крајем шездесетих и почетком седамдесетих година деловала подружница Астрономског друштва "Руђер Бошковић", а на Филозофском факултету је у периоду 1976 - 1980. године постојало "Астрогеофизичко друштво". Године 1996. основано је Астрономско друштво "Алфа" (Драган Ж. Гајић, Филозофски факултет, Студијска група за Физику, П. Фах 91, 18001 Ниш). Први претседник Друштва је Зоран Секулић а од марта 1997. године председник је Драган Ж. Гајић.

Године 1996. и Зрењанин је добио организацију астронома аматера, Астрономско друштво "Милутин Миланковић" (Миша Брадић, Зрењанинска гимназија, Гимназијска 2, 23000 Зрењанин).

Аматерска астрономска друштва дала су велики допринос ширењу астрономских знања, нових научних достигнућа из ове области и стварању повољније климе у друштву за развој астрономије у Србији.

На прагу новог миленијума, астрономија у Србији има солидну основу за даљи развој. Креативни научни кадрови, Астрономска опсерваторија, Катедра за астрономију, Народна опсерваторија и планетаријум и бројна астрономска друштва, дају младима шансу да се упознају са тајнама неба, образују и професионално остваре у науци, која нас приближава звездама.

ASTRONOMY IN SERBIA IN THE XX CENTURY

MILAN NEDELJKOVIĆ AND THE FOUNDATION OF THE ASTRONOMICAL OBSERVATORY AND THE DEPARTMENT OF ASTRONOMY

The principal astronomical institution in Serbia is the Belgrade Astronomical Observatory, one of the oldest scientific organizations and the only autonomous astronomical institute in our country. Its past development forms an important part of the history of science and culture in these regions. The decree of its founding conjointly with the Meteorological Observatory was signed on 20 March (7 April) 1887 by the Minister of Education and Church Affairs of Kingdom of Serbia Milan Kujundžić on the initiative of Milan Nedeljković (Belgrade 27. Sept. 1857 - Belgrade 27 Dec. 1950), a professor of the Grand School (Belgrade University). Nedeljković was appointed first director of the newly founded Observatory.

On 1 May 1871 Nedeljković started his activity at the provisory Observatory in the rented Geizler family's house. Here the Observatory was operating until 1 May 1891, when it was moved into its own building constructed meanwhile - the one in which at present is Meteorological Observatory in the Karadjordje Park. In the minor museum section of this building there is, since the celebration of the Observatory's centenary in 1987, a room dedicated to the origins of astronomical science in Serbia.

Nedeljković was at the head of the Observatory from 26 March (7 April) 1887 until 30 January 1924. A break took place only between 5 July 1899 and 31 October 1900, when he was sent into retirement for political reasons, in connection with the Ivanjdan attempt on King Milan, which was exploited by King Alexander for settling accounts with his political oponents. Nedeljković's place was filled during this period by Djordje Stanojević (Negotin, 7 April 1858 - Paris 24 Dec. 1921), the first Serbian astrophysicist, later on the rector of Belgrade University. Dj. Stanojević was a great popularizer of astronomy and science in general; he was the driving force in the introduction of electrical light in Belgrade, Užice, Čačak, Leskovac... He was the builder of the first hydro-electric power station in Serbia, a pioneer of industry of refrigerating appliances, the initiator of setting up a committee for cooling problems and of forming an international organization for cooling technique in Paris in 1903. He was also the pioneer of the color photography in Serbia.

Apart from its importance for astronomy and meteorology, the newly built Observatory, headed by Nedeljković, was a cradle of the seismic and geomagnetic researches in Serbia. Nedeljković borrowed in 1903 the instruments for geomagnetic measurements from Tege Miklosh Konkoly, the founder of the Budapest Astronomical Observatory, and took care of building an earth-magnetism pavilion. Thanks to Konkoly, Nedeljković acquired in 1903 also a seismograph, installed next year in a special pavilion. The observations were carried out regularly and for these purposes the construction of what at present is the Seismological Institute was executed in 1906. This activity was taken over by Nedeljković's assistant Jelenko Mihailović (Vrbica, 11 Jan. 1869 - Belgrade 10 Oct. 1958) who worked at the Observatory since 1896.

During the Austro-Hungarian occupation of Serbia in World War I, the Observatory was administrated by Victor Konrad from Vienna. During their flight from Serbia the Austrians took away or destroyed all the instruments. However, thanks to his extraordinary and professional skill Nedeljković contrived to acquire in Germany after the war, on account of war reparations, a number of instruments appertaining equipment for the new Observatory.

The instruments procured by Nedeljković constitute still practically the only observing basis of the Observatory, although some of them were taken away by the Germans during the World War II, two were ceded to each Ljubljana and Zagreb Universities (Djurković 1968), some of the smaller ones being left unmounted.

Currently mounted in appropriate pavilions are the following instruments procured by Nedeljković:

1. Large Refractor - ZEISS 650/10550mm equatorial;
2. Solar spectrograph (monochromatic) LITTROW, 9000 mm/100.000 developed by adapting to the ZEISS 200/3020 mm equatorial two astrocameras TESSAR and PETZVAL 160/800 mm;
3. Large Transit Instrument ASKANIA 190/2578 mm;
4. Large Vertical Circle ASKANIA 190/2578 mm;
5. Astrograph ZEISS 160/800 mm;
6. Photovisual Refractor ZEISS 135/1000 mm and 125/1000 mm;
7. Transit Instrument BAMBERG 100/1000 mm;
8. Zenith-telescope ASKANIA 110/1287 mm;

Large Meridian Circle ASKANIA 190/2578 mm burnt up on 11th of May 1999 during NATO agressors air attack.

As Nedeljković was struggling for the new Observatory at which the acquired instruments were to be mounted and regular astronomical observations started, he suddenly was sent into retirement on 30 Jan. 1924. By ruling of the

Faculty Council the Observatory was divided into two separate institutions: Astronomical Observatory and Meteorological Observatory of Belgrade University. In the same time Department of astronomy is separated from the meteorology, as a particular department of the Philosophical faculty.

BUILDING OF THE NEW ASTRONOMICAL OBSERVATORY AND ITS DEVELOPMENT

At the head of the Astronomical Observatory was appointed in 1925 Vojislav V. Mišković (Fužine 18 Jan. 1892 - Belgrade 25 Nov. 1976), at the time already a well established astronomer engaged at Nice Observatory, France. He began his astronomical studies in Budapest and Göttingen before the World War I. On his demobilisation at the end of 1918 from the Serbian Army, in which he served as a volunteer, he was sent to France to complete his studies. He graduated in 1919 and was appointed assistant at the Marseille Observatory. Since 1922 he was engaged as an astronomer at the Nice Observatory, receiving his doctor's degree in 1924 at the Montpellier University. In 1925 he won French Academy Prize for his studies in stellar statistics. In the period 1919-1925 he published a score of papers in the French scientific journals, treating the observation of the minor planets and comets and the determination of their orbits. He came to Belgrade in 1926 taking, in addition to the Astronomical Observatory, charge of the newly established Chair of Theoretical and Practical Astronomy at the Faculty of Philosophy, whereat he was elected associated professor. In 1929 he was elected corresponding member of the Serbian Royal Academy and in 1939 its full member. He directed the Observatory's activity to a considerable degree toward mathematical and numerical works, which yielded valuable results. Of importance are numerical works connected with the Mathematical Climatology of M. Milanković as well as with Mišković's own Precession Tables.

In 1929 Mišković succeeded in getting funds for the constructions of a new, modern, observatory, at 6 km distance southeast from the city's center, occupying a 4.5 ha area at 253 m high hill Veliki Vračar, named since, along with the entire surrounding part of Belgrade, Zvezdara (=concerned with stars).

Exceptional and highly valued complex constituting the Astronomical Observatory was drawn up by Jan Dubovi, a member of GAMP (Group of Modern Outlook Architects) founded in 1928. It is thanks to this very achievement that Dubovi was conferred a doctor of science degree in Prague. The construction works were carried out in 1930 to 1932, the instruments being mounted during the following two years.

Mišković started also publishing the scientific periodical *Mémoires de l'Observatoire Astronomique de Belgrade* (issued five volumes for: 1932, 1933, 1936, 1938 and 1949), *Annuaire de l'Observatoire Astronomique de Belgrade* (six

volumes for 1929 through 1934) containing sidereal time, short-period nutation terms, the mean and apparent places of 189 stars, newly discovered minor planets and directions for use. *Nautički godišnjak* (Nautical Almanach) for years 1934 through 1941) for navigation purposes in the Navy and *Godišnjak Našeg Neba* (Almanac of our Sky) an astronomical calendar in Serbian, issued in the years 1930 to 1941 and 1948 to 1952 (the 1948 issue was edited by F. Dominko and the issues for 1949, 1950 and 1951 by B. Popović).

In 1936 Mišković, assisted by Milorad Protić, organized the Minor Planets and Sun Observation Service. In the same year P. Djurković discovered at the Uccle Observatory, Belgium, a minor planet, subsequently named 1605 Milanković and M. Protić, at the Belgrade Observatory, discovered the minor planet 1564 Serbia, which marked the opening of a long series of 43 minor planets discovered by the Belgrade astronomers. Protić alone, in the period 1936-1956, made 33 discoveries. Of the 43 minor planets owing their discovery to Belgrade astronomers, 12 have obtained by the IAU permanent names, three of the discoveries having later been ascribed to other authors.

Besides Serbia, using his author's right, Protić gave the following names to the minor planets he discovered: 1507 Beograd, 1550 Tito, 1554 Yugoslavia, 1675 Simonida, 1724 Vladimir (after his grandson), 2244 Tesla and 2348 Mišković. P. Djurković discovered in the period 1936-1941, 5 minor planets, one of them - Zvezdara- named by him using his discover's prerogative. In 1980 Z. Knežević discovered on the photo-plates taken according to his instructions at Piszkesteto Observatory, Hungary, four minor planets, one of which having obtained the name 3276 Paolicchi, after one of his colleagues in Italy. In 1991, as a mark of honor, a minor planet was given the name 3900 Knežević - after our fellow. Another minor planet connected with the Belgrade Observatory is that named 1555 Dejan, after P. Djurković's son. On 30 December 2001, was announced that a minor planet has been named 22278 Protić.

In 1936 Mišković started issuing *Bulletin de l'Observatoire astronomique de Belgrade*, a scientific periodical which from No. 145 for 1992 on appears under the name *Bulletin astronomique de Belgrade*, and from the number 157 for 1998 under the name *Serbian Astronomical Journal*. This periodical's editors have been: V. V. Mišković (1936-1940, 1943 -- 1948 and 1952-1956), M. Protić (1941-1942, 1955-1960 and 1971-1975), B. Popović (1950), V. Oskanjan (1964), P. Djurković (1964-1970), M. Mijatov (Nos. 127-131 in 1976-1981), D. Zulević (Nos. 132-133, in 1982-1983), Dj. Teleki (Nos. 134-136 in 1984-1986) and M. S. Dimitrijević (Nos. 137-165 in 1987-2002).

Since July 1941 at the Observatory were quartered German military. The Wehrmacht brought along profs. Grotrian and Kippenheur from Potsdam, the two having inscribed the Observatory's instruments as German property, dispatching to

Germany the spectroheliograph and the comet searcher. On the terraces of the Observatory's edifice and on the water storage building pill-boxes were erected for directing the flak, while the library was turned into officers mess. In the course of the liberation fightings in 1944 particularly heavy damages were inflicted on the main edifice, the water storage building and on "Large Refractor" pavilion. The Observatory's reconstruction was undertaken immediately after the war. Mišković remained its director until March 1946 when he submitted his resignation, accepted not before May 1948.

In 1945 P. Djurković started and edited the professional periodical *Astronomska i Meteorološka Saopštenja* (Astronomical and Meteorological Reports), published by the Observatory up to 1950 (seven issues in all). In 1947 Observatory started the series *Publikacije Astronomske Opservatorije u Beogradu* (Publications of Astronomical Observatory). Its editors in chief were: V. Oskanjan (No. 10), P. Djurković (Nos. 12-16), M. Protić (Nos. 17-19, 20-21) Dj. Teleki (Nos. 20, 26, 32, 34 and 35), M. Mijatov (Nos. 24, 25, 27-31), G. Popović (No. 33) and M. S. Dimitrijević (Nos. 36-74) until the second half of 2002.

When in May 1948 V. Mišković's resignation was accepted, to the post of Observatory's director was appointed academician Milutin Milanković (Dalj 28 May 1879 - Belgrade 12 Dec. 1958) who went down in history of science by his having explained the ice ages phenomenon through the slow changes in the Earth's insolation in consequence of the Earth's axis inclination and its motion around Sun, undergoing changes produced by various influences. Milanković elucidated also the history of the climate of Earth and other planets, being the originator of the mathematical theory of the Earth's poles motion. The Observatory's direction was entrusted to the Observatory's Council, at the head of which was the director and Council's president M. Milanković, with members Anton Bilimović, V. Mišković and Pavle Savić (Popović 1951). Milanković held this post till 26 June 1951.

In 1951 P. Djurković organized the Double Star Service. Within this Service, subsequently named Group, were discovered several hundreds new double and multiple stars, the bulk of the which is due to Georgije Popović, working in this Group since 1960, being at its head since 1976.

In this same year the Variable Stars Service was organized by Vasilije Oskanjan. In this he was joined by Aleksandar Kubičela and Jelisaveta Arsenijević (at the Observatory since 1956) whereby an impetuous development of the astrophysical researches took place later directed toward stellar and solar physics and astronomical spectroscopy. Initially it was the photometry of eruptive stars which was pursued. Since 1959, after Oskanjan's return from his specialization in the Soviet Union, it was the work in the field of polarimetry of eruptive stars that was taken up. Formally, the Astrophysical Group was founded in 1960.

From 26 June 1951 to March 1954 the Observatory's director is again V. Mišković. After he went into retirement the Observatory was headed by M. Protić in the capacity of deputy director and from 21 Nov. 1956 to 21 Nov. 1960 as a director.

After M. Protić at the head of the Observatory was Vasilije Oskanjan, first as acting director since 1960, then in 1964-1965 as the director. Following him, from July 1965 to 1970, the director was Pero Djurković. After him in the period 1971-1975 at the head of Observatory is again M. Protić. Since 1975, first as acting director and from 13 July 1977 to Sept 1981 as the director was M. Mijatov (Belgrade 3 July 1933 - Belgrade 19 Nov 1996). The director's post from 1982 to 1989 was held by Miodrag Mitrović, in 1990-1993 by Ištvan Vince, and from 21 Nov 1994 to 1 July 2002 by Milan Dimitrijević.

In 1987, in the presence of a number of statesmen and eminent guests from the country and abroad, the centenary of the Observatory's founding was solemnly celebrated in the hall of the Assembly of Serbia. On the occasion of this jubilee three international and one Yugoslav scientific conferences were held: IAU Colloquium 100 "Fundamental Astrometry" (8-11 Nov. – Chairman SOC H. Eichorn, Gainesville, USA), International Symposium on Astronomical Refraction in memory of Dj. Teleki, former President of IAU Working Group on Astronomical Refraction (3-4 Nov. Chairman SOC V. Milovanović), Second International Symposium on Catastrophic Collisions of the Small Solar System Bodies (8-11 Nov. Chairman SOC V. Zappala, Italy) and Second Workshop "Astrophysics in Yugoslavia" (8-10 Nov. Chairman SOC M. Dimitrijević). During these festivities a minor museum was opened in the old Observatory's building in Karadjordje Park, one of its rooms being dedicated to the development of the Astronomical Observatory.

In 1994 there took place a reorganization of the Observatory's inner structure, resulting in the establishment of : Department of Astrophysics, Department of Dynamical Astronomy and Department of Astrometry.

In 1995 the Observatory participated in the organization of the International Russian - Yugoslav Conference "Newcomb and Fundamental Astrometry" in St. Petersburg, of the First Hungarian-Yugoslav Conference in Baja and the First Romanian-Yugoslav Round Table on collaboration in astronomy in Timișoara; it organized the First Yugoslav Conference on Spectral Line Shapes in Krivaja.

In 1996 the Observatory organized the Second Yugoslav-Romanian Round Table on collaboration in astronomy in Belgrade and the Astrophysics Section at the 18th Summer School and International Symposium on the Physics of Ionized Gases in Kotor. The Observatory participated in the organization of the First

Belaruss-Yugoslav Conference on Physics and Dynamics of Laboratory and Astrophysical Plasma in Minsk. The Observatory's fellows presented their results at 13 international and 6 national conferences. They published 129 bibliographic items of which 16 in the international leading journals. It published 4 volumes of *Publ. Astron. Obs. Belgrade* and 2 Nos. of its periodical *Bull. Astron. Belgrade*.

In 1997 the Observatory organized in the framework of celebration of its 110th anniversary the scientific conference "Development of Astronomy among Serbs". It took part also in the organization of the Third Romanian-Yugoslav Round Table on Cooperation in Astronomy in Kluj-Napoca, as well as in the Second Yugoslav Conference on Spectral Line Shapes in Bela Crkva. Its fellows presented their results at 13 international and 4 national conferences. They published 152 bibliographic items, 11 of which in international journals of the highest standing. Moreover, 2 MSc theses have been defended, and Astronomical Observatory publishes as in 1996 four publications and 2 Nos. of *Bull. Astron. Belgrade*.

During 1998, 154 bibliographic items have been published, with 19 among them in international scientific journals of the highest standing. Five invited lectures and progress reports have been given by fellows of Observatory at international conferences and one at national one. Four reviews and monographic texts in national publications have been published. Observatory's fellows have participated in works of 16 Scientific conferences abroad (28 participations by 19 fellows) and six conferences in Yugoslavia (61 participation by 28 fellows). Organized by the Observatory were IV Yugoslav - Romanian Astronomical Meeting, Belgrade, 5-8. 05. 1998; I Bulgarian - Serbian Astronomical Seminar, Belogradchik, 6-7. 08. 1998 and II Yugoslav - Belarussian Symposium on Physics and Diagnostics of Laboratory and Astrophysical Plasmas, Zlatibor, 5-6. 09. 1998. Also, Observatory organizes the section "Astrophysical plasma" at the XIX Summer school and International Symposium of Physics of Ionized Gases Zlatibor 31 August - 4 September 1998). It issued four publications of the series *Publ. Astron. Obs. Belgrade* and two Nos. of its periodical *Bull. Astron. Belgrade*. As from 1998 Astronomical Observatory has an internet connection available from each personal computer on Observatory with Windows 95 installed.

During 1999, in spite of NATO aggression on Yugoslavia and the destruction of the Big meridian circle during an air attack of NATO aggressors (on the 11th of May), 112 bibliographic items have been published, 23 among them in international scientific journals of the highest standing. Six invited lectures have been given by Observatory's fellows at international conferences and five at national ones. Moreover, two Ph. D and one M. Sc Thesis have been defended. Numbers 159 and 160 of the Observatory's publication *Serbian Astronomical Journal*, as well as Nos. 63, 64, 65 and 66 of the *Publications of the Astronomical Observatory of Belgrade* have been issued. These publications are regularly sent to

136 institutions and libraries in 45 countries and to 15 institutions and libraries within Yugoslavia. Observatory's fellows have participated in works of 8 scientific conferences abroad (9 participations by 6 fellows) and three conferences in Yugoslavia (35 participation by 22 fellows). During 1999, Belgrade observatory organized or took part in the organization of the following conferences: III Yugoslav Conference on Spectral Line Shapes, Brankovac (Fruška gora), 4-6.10.1999; XII National Conference of Yugoslav Astronomers and International Workshop on the Development of Astronomical Databases, Belgrade, 19-21.11. 1999 and Simpozijum "Milanković - juče, danas, sutra" (Symposium "Milanković - yesterday, today, tomorrow"), Belgrade, 25-26.11. 1999. Besides numerous newspaper articles and radio and TV emissions Observatory's fellows authored, explaining particularly the 11th August 1999 total Solar eclipse, they gave 48 lectures on astronomical subjects outside this institution contributing to the cultural life in our country.

During 2000, 118 bibliographic items have been published, with 14 among them in international scientific journals. Eight invited lectures and progress reports have been given by fellows of Observatory at international conferences and two at national ones. Moreover, one Ph. D and one M. Sc Thesis have been defended. Number 161 of the Observatory's publication *Serbian Astronomical Journal*, as well as Nos. 67, 68 and 69 of the *Publications of the Astronomical Observatory of Belgrade* have been issued. These publications are regularly sent to 100 institutions and libraries in 45 countries and to 15 institutions and libraries within Yugoslavia. Observatory's fellows have participated in works of 13 Scientific conferences abroad (30 participations by 16 fellows) and seven conferences in Yugoslavia (39 participation by 17 fellows). Organized by the Observatory were III Belarussian - Yugoslav Symposium on Physics and Diagnostics of Laboratory and Astrophysical Plasmas, Minsk, 17-21. 09. 2000, II Serbian - Bulgarian Astronomical Seminar, Zaječar - Gamzigradska Banja 23-26 Jun 2000, School for young astronomers "Processing of astronomical images by MIDAS software", Research center Petnica - Valjevo, 21-24 November 2000, the section "Astrophysical plasma" at the XX Summer school and International Symposium of Physics of Ionized Gases (Zlatibor 4-8 September 2000). Besides 27 newspaper articles, 6 interviews and the participation in numerous (more than 20) radio and TV emissions Observatory's fellows gave and 61 lectures on astronomical subjects outside this institution

It should be noted also that *Serbian Astronomical Journal* is available on www through the Astrophysical Data System (ADS), thanks to the courtesy of the System's holders. The www address is: <http://adswwww.harvard.edu.BOBeo>. During 1999, the web site of the Belgrade astronomical observatory has been made and the corresponding www address is: <http://www.aob.bg.ac.yu>. Moreover the database BELDATA has started to develop and it is available through internet with the address: <http://www.aob.bg.ac.yu/BELDATA>.

At the end of the year 2000, there was 41 employees at the Observatory and 32 of them were astronomers.

In the course of its history the Belgrade Astronomical Observatory grew to an institution of great importance in the history of science and culture of the Serbian people, not only in the field of astronomy but also in meteorology, seismology and geomagnetism. Linked to this institution are the names of the famous personalities in the history of science who contributed to the Observatory, and the scientific achievements of Serbian astronomers in general, having earned esteem in the international scientific community as well as to the young having a good perspective, in our country too, in engaging in this beautiful and challenging science, in an ambience enabling them to achieve results of the highest value.

UNIVERSITY TEACHING OF ASTRONOMY IN SERBIA AFTER THE SECOND WAR

Teaching of astronomy on University, has in Serbia a longer tradition. It was founded by distinguished scientists as Milan Nedeljković and famous Milutin Milanković. On such, well grounded basis, later was developed education in this field on Belgrade University. The astronomy has been introduced here in high education in 1884, and the first teacher was Milan Nedeljković. As the Faculty of Sciences separated from the Philosophical Faculty in 1947, the Chair of Celestial Mechanics and Astronomy was formed, having shortly thereafter changed its name into Chair of Mechanics and Astronomy. The splitting up of this Chair into the Chair of Mechanics and the Chair of Astronomy began in 1960, being completed in 1962. The reorganization of the Faculty of Sciences in 1971 entailed the Chair of Astronomy becoming the Institute of Astronomy. In 1995 there took place the division of the Faculty of Sciences into several faculties. As the Faculty of Mathematics there remained the Chair of Astronomy which re-took, in the new organization, its old name. In 1961 two study groups were formed - one for Astronomy, the other for Astrophysics.

Beside Belgrade, Astronomy is taught at University in Novi Sad, Niš and Kragujevac. At the Faculty of Sciences of the Novi Sad University there is, since 1986, in 8th semester, the subject "Astrophysics and Astronomy", involving twice a week lectures and twice a week exercises. The subject is obligatory for students wishing to teach Physics in the secondary schools while being optional for students of Applied Physics.

At the Faculty of Philosophy of the Niš University in the study group for Physics, within the specialized training in General Physics, since the school year 1990/91 until 1993/94 there was taught twice a week in the 7th and 8th semesters, the subject "Fundamentals of Astrophysics". The subject was thereafter dropped

for two years from the curriculum, to be again taught within the 7th semester twice a week. In addition, there is in the study group for chemistry a Chair for Geo- and Cosmo-chemistry, occupying itself with the study of meteors and meteorites.

At the Faculty of Sciences of the Kragujevac University there has been introduced in the school year 1998/99 the subject "Astrophysics and Astronomy" in the 6th semester of the specialized training of the Group for Physics, with twice a week teaching and twice a week exercises.

During the period after the World war II, one can notice the dynamical development of the high school teaching of astronomy, particularly at the end of XX century, when study groups for astronomy were founded outside Belgrade, in university and cultural centers as Novi Saad, Niš and Kragujevac.

AMATEUR ASTRONOMICAL SOCIETIES

In addition to professional Astronomy, well developed in Serbia is also the amateur Astronomy. This demonstrates a wider interest for achievements of this science. The largest and the oldest organization of amateur-astronomers is the Astronomical Society "Rudjer Bošković" in Belgrade (Kalemegdan, Gornji Grad 16, 11000 Belgrade). The founding meeting was held on 22 April 1934. The first Society's President was Djordje Nikolić (1934-1936) and the second Vojin Djuričić (1936-1941), the governor of the State Mortgage Bank.

After the War, on 9 December 1951 was held the founding meeting of the Belgrade Astronomical Club "Rudjer Bošković" (as component part of the Association of students of the Natural-Mathematical Faculty (PMF)), Dr Radovan Danić being elect its President. Considering that already in 1952 there were in the Club 64 members, the majority of whom were not associated with the PMF, the Club Administrative Committee took decision on 23 March 1952, the Club to be re-registered into Astronomical Society "Rudjer Bošković". The founding meeting of the Society was held on 18 May 1952, Radovan Danić having been again elected its President (1952-1966). Following him the Society' Presidents have been: Branislav Ševarlić (1966-1970), Pero Djurković (1970-1972), Nenad Janković (1972-1974), Božidar Popović (1974-1979), Zoran Knežević (1979-1982) and Milan S. Dimitrijević (1982-2004).

In 1953 the Society, jointly with the Aeronautical Association of Yugoslavia, started publishing the periodical for astronomy and aeronautics (currently for astronomy) *Vasiona* (Universe). The periodical's editors in chief were: Nenad Dj. Janković (1953-1972), Pero Djurković (1973-1974), Jelena Milogradov-Turin (1975-1982), Branislav Ševarlić (1983-1984) and Milan S. Dimitrijević (1985-2004).

Thanks to the exertion of Pero Djurković and Radovan Danić with the authorities concerned, the Society obtained for itself the permises in the Despot Tower at Kalemegdan where, on 20 December 1964 was solemnly opened the People's Observatory, whose regular activity started in June 1965. The Society managed also to procure a Zeiss planetarium, which was installed in an old spacious steam bath-house - Turkish Hamam - in the Kalemegdan Donji Grad. The Planetarium started operating in 1969, being formally opened on 27 February 1970.

The founding meeting of the Astronomical Society "Novi Sad", ADNOS (Jaroslav Francisti, Astronomska Opservatorija, Petrovaradinska tvrđjava, 2100^o Novi Sad), took place on 4 March 1974. In 1976 the Society bought telescopes 20T Observatory 108/1600 mm and 10K 80/1200 mm and 14T 60/900 mm, of the American firm TASC0, and in 1991 purchased the reflector type telescopes Meade 200/1500 mm and 102/1000 mm. In 1989 the adaptation of the Astronomical Observatory at the Petrovaradin Fortress was completed while in 1996 the premises for the planetarium were secured and its adaptation is now finished. The Society's President in the period 1974-1980 was Živojin Ćulum, in the period 1980-1984 Božidar Jovanović, 1984-1998 Djura Paunić, from 1998 - up to 1 September 2000 Svetislav Krstić, and from 1 September 2000 the President is Dragoslav Petrović.

At Petnica near Valjevo the organization of the Young Researchers of Serbia is building the House of Young Researchers. This institution, initially of a recreative character, became the Research Station Petnica (Istraživačka stanica Petnica, Petnica, 14000 Valjevo). The first programmes were carried out in 1982, the first seminar in Astronomy in 1983 in preparation for going out for Rgaj Mountain, where astroclimatic explorations were conducted. In 1988 was obtained a Celestron telescope of Schmidt-Cassegrain type, objective diameter 20 cm. Later on were purchased Celestron, opening 102 cm, as well as a reflector of 33 cm opening, manufactured by Aljoša Jovanović. The heads of the seminar were Darko Jevremović, Silvana Nikolić, Samir Salim and Nikola Božinović, the duty being currently discharged by Oliver Vince.

In Valjevo, within the framework of the Society of researchers "Vladimir Mandić - Manda", founded on 16 February 1969, there is active also the Astronomical Group founded in 1972 (Nikola Božić, Birčaninova 68, p. fah 118, 14000 Valjevo).

In Kragujevac, on the roof of the Institute of Physics of the Faculty of Sciences, there is the "Belerofont" Observatory (Vukota Babović, Institut za fiziku PMF, Sestre Janjić 4, Kragujevac), opened on 20 February 1986. It disposes of a telescope Meniscus Cassegrain Spiegel 130/2250 mm.

In Niš, at the close of the sixties and the start of the seventies, there was operating a branch of the Astronomical Society "Rudjer Bošković", while at the Faculty of Philosophy there existed in the period 1976-1980 the "Astro-Geophysical Society". In the year 1996 there was founded Astronomical Society "Alpha" (Dragan Ž. Gajić, Filozofski fakultet, Studijska grupa za Fiziku, p. fah 91, 18001 Niš). The first Society's President was Zoran Sekulić, while from March 1997 on, the President is Dragan Ž. Gajić.

In 1996 Zrenjanin too got an organization of amateur astronomers, Astronomical Society "Milutin Milanković" (Miša Bradić, Zrenjaninska gimnazija, Gimnazijska 2, 23000 Zrenjanin).

The amateur astronomers societies greatly contributed to the spreading of astronomical knowledge in our midst and to keeping step with the latest astronomical achievements and discoveries, the creating a more suitable climate for the development of Astronomy in Serbia.

In the beginning of the new millenium, the astronomy in Serbia has a solid basis for further development. Creative scientific staff, Astronomical Observatory, Department of Astronomy, People's Observatory and Planetarium and numerous astronomical societies, provide to young an opportunity to inform, educate and work professionally in the science which make us closest to the stars.

ИЗБРАНА ЛИТЕРАТУРА О ИСТОРИЈИ АСТРОНОМИЈЕ КОД СРБА У ХХ ВЕКУ

SELECTED LITERATURE ON THE HISTORY OF ASTRONOMY AT SERBS IN XX CENTURY

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СРПСКА АСТРОНОМИЈА У ИНДЕКСУ НАУЧНИХ ЦИТАТА У XX ВЕКУ¹

SERBIAN ASTRONOMY IN SCIENCE CITATION INDEX IN THE XX CENTURY²

¹ Масним словима су издвојени цитирани научни радови испод којих су дате референце у којима се цитирају.

² With boldface are marked cited scientific works and below are given references where they are cited.

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НАЈУТИЦАЈНИЈИ РАДОВИ¹

THE MOST INFLUENCING WORKS

На основу увида у целину овде су издвојени радови са 25 или више цитата, или са 10 цитата без аутоцитата било кога коаутора. При томе N1 означава редни број рада, N2 редни број рада у претходној библиографији, N3 укупан број цитата и N4 број цитата без аутоцитата.

Here are selected works with 25 or more citations, or 10 citations without autocitations of any coauthor. N1 is ordinal number, N2 is ordinal number of the considered work in the previous bibliography, N3 is the total number of citations and N4 is the number of citations without autocitations.

N1	N2	Чланак – Article	N3	N4
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2.	6.	Milanković, M.: 1930, <i>Mathematische Klimalehre und Astronomische Theorie der Klimaschwankungen</i> , Handbuch der Klimatologie, Bd I, T.A. Hrsg. von W. Köppen und R. Geiger, Berlin, Gebrüder Borntraeger, 1930, 1-176.	166	166
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8.	121.	Platiša, M., Popović, M., Dimitrijević, M., Konjević, N.: 1975, <i>Stark Broadening of A III and A IV Lines</i> , <i>Zeitschrift für Naturforschung</i> , 30a, 212.	25	10
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14.	178.	Carlson, T. A., Copley, J., Djurić, N., Elander, N., Erman, P., Larson, M., Lyyra, M.: 1980, <i>The oscillator strengths and the dissociation energy of SiH⁺ as determined from time resolved precision spectroscopy</i> , Astronomy and Astrophysics, 83, 238.	10	10
15.	180.	Dimitrijević, M., Konjević, N.: 1980, <i>Stark line widths of doubly- and triply-ionized atom lines</i> , Journal of Quantitative Spectroscopy and Radiative Transfer, 24, 451.	114	57
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17.	206.	Arnesen, A., Hallin, R., Nordling, C., Staaf, O., Ward, L., Jelenković, B., Kiselinski, M., Lundin, L., Mannervik, S.: 1982, <i>Hyperfine structure measurement in Sc II</i> , Astronomy and Astrophysics, 106, 327.	11	10
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19.	237.	Lakićević, I. S.: 1983, <i>Estimated Stark widths and shifts of neutral atom and singly charged ion resonance lines</i> , Astronomy and Astrophysics 127, 37.	15	14
20.	244.	Zapala, V., Di Martino, M., Scaltriti, F., Djurašević, G., Knežević, Z.: 1983, <i>Photoelectric analysis of asteroid 216 Kleopatra: Implications for its shape</i> , Icarus, 53, 458.	14	10
21.	249.	Dimitrijević, M. S., Sahal-Bréchet, S.: 1984, <i>Stark broadening of neutral helium lines</i> , Journal of Quantitative Spectroscopy and Radiative Transfer, 31, 301.	86	33

N1	N2	Чланак – Article	N3	N4
22.	253.	Konjević, N., Dimitrijević, M. S., Wiese, W. L.: 1984, <i>Experimental Stark Widths and Shifts for Spectral Lines of Neutral Atoms (A Critical Review of Selected Data for the Period 1976 to 1982)</i> , Journal of Physical and Chemical Reference Data, 13 , 619.	56	30
23.	254.	Konjević, N., Dimitrijević, M. S., Wiese, W. L.: 1984, <i>Experimental Stark Widths and Shifts for Spectral Lines of Positive Ions (A Critical Review and Tabulation of Selected Data for the Period 1976 to 1982)</i> , Journal of Physical and Chemical Reference Data, 13 , 649.	59	41
24.	261.	Zappala, V., Knežević, Z.: 1984, <i>Rotation Axes of Asteroids - Results for 14 Objects</i> , Icarus, 59 , 436.	38	30
25.	262.	Zappala, V., Farinella, P., Knežević, Z., Paolicchi, P.: 1984, <i>Collisional Origin of the Asteroid Families - Mass and Velocity Distribution</i> , Icarus, 59 , 261.	62	25
26.	285.	Dimitrijević, M. S., Konjević, N.: 1986, <i>Simple formulae for estimating Stark widths and shifts of neutral atom lines</i> , Astronomy and Astrophysics, 163 , 297.	34	20
27.	307.	Dimitrijević, M. S., Konjević, N.: 1987, <i>Simple estimates for Stark broadening of ion lines in stellar plasmas</i> , Astronomy and Astrophysics, 172 , 345.	44	30
28.	335.	Dimitrijević, M. S.: 1988, <i>Electron-impact widths of doubly and triply charged ion lines of astrophysical importance</i> , Astronomy and Astrophysics Supplement Series, 76 , 53.	26	9
29.	339.	Lanz, T., Dimitrijević, M. S., Artru, M. -C.: 1988, <i>Stark broadening of visible Si II lines in stellar atmospheres</i> , Astronomy and Astrophysics, 192 , 249.	48	41
30.	394.	Milani, A., Knežević, Z.: 1990, <i>Secular Perturbation Theory and Computation of Asteroid Proper Elements</i> , Celestial Mechanics, 49 , 347.	34	21
31.	400.	Zappala, V., Cellino, A., Farinella, P., Knežević, Z.: 1990, <i>Asteroid Families. 1. Identification by Hierarchical - Clustering and Reliability Assessment</i> , Astronomical Journal, 100 , 2030.	24	10

N1	N2	Чланак – Article	N3	N4
32.	402.	Brosche, P., Tucholke, H. J., Klemola, A. R., Ninković, S., Geffert, M., Doerenkamp, P.: 1991, <i>Space Motions of Globular Clusters NGC 362 and NGC 6218 (M12)</i> , <i>Astronomical Journal</i> , 102 , 2022.	22	12
33.	406.	Dimitrijević, M. S., Sahal-Bréchet, S., Bommier, V.: 1991, <i>Stark broadening of spectral lines of multicharged ions of astrophysical interest. I. C IV lines</i> , <i>Astronomy and Astrophysics Supplement Series</i> , 89 , 581.	52	10
34.	415.	Knežević, Z., Milani, A., Farinella, P., Froeschle, C.: 1991, <i>Secular Resonances from 2 to 50 AU</i> , <i>Icarus</i> , 93 , 316.	52	32
35.	439.	Jankov, S., Foing, B. H.: 1992, <i>Tomographic Imaging of Late-Type Stars from Spectroscopic and Photometric Rotational Modulation. I. Principle and Mathematical Formulation of the Method</i> , <i>Astronomy and Astrophysics</i> , 256 , 533.	13	11
36.	450.	Milani, A., Knežević, Z.: 1992, <i>Asteroid Proper Elements and Secular Resonances</i> , <i>Icarus</i> , 98 , 211.	30	18
37.	518.	Milani, A., Knežević, Z.: 1994, <i>Asteroid Proper Elements and the Dynamical Structure of the Asteroid Main Belt</i> , <i>Icarus</i> , 107 , 219.	27	18
38.	587.	Mihajlov, A. A., Djurić, Z., Dimitrijević, M.S., Ljepo-jević, N. N.: 1997, <i>Collisional He - He*(n) Chemi - Ionization and Dielectronic He - He+ - e and He+2 - e Recombination - Differential and Total Reaction Rate Coefficients</i> , <i>Physica Scripta</i> , 56 , 631.	13	11

На основу изнетих података може се запазити да је међу понуђеним радовима, у XX веку највише упуца у међународној научној јавности имало чувено дело Милутина Миланковића о утицају промена у осунчавању Земље на појаву ледених доба (N1=5). Области у којима су резултати истраживања наших научника имали највише одјека су астрономска теорија климатских промена (Милутин Миланковић), проучавања астрофизичких и лабораторијских спектра (Београдска школа – Никола Коњевић, Михајло Платиша, Милан Поповић, Илија Лакићевић, Милан С. Димитријевић), теоријска проучавања астероида (Зоран Кнежевић, Гојко Ђурашевић) и истраживања променљивих и еруптивних звезда (Василије Оскањан).

On the basis of presented data one can conclude that in the XX century, the most influencing of works considered here is the famous work of Milutin

Milanković on the influence of variations of insolation of the Earth on the appearance of ice-ages (N1=5). The research fields where results of our scientists were widely used by the international scientific community are astronomical theory of climatic variations (Milutin Milanković), investigations of astrophysical and laboratory spectra (Belgrade school – Nikola Konjević, Mihajlo Platiša, Milan Popović, Ilija Lakićević, Milan S. Dimitrijević), theoretical research of asteroids (Zoran Knežević, Gojko Djurašević) and study of variable and eruptive stars (Vasilije Oskanjan).

ЦИТИРАНИ СРПСКИ АУТОРИ

CITED SERBIAN AUTHORS

Стваралачки резултати српских астронома и истраживача у овој области, у знатној мери су присутни у међународној научној јавности и видно су утицали на развој астрономије у двадесетом веку. То се очигледно може запазити не само из представљених цитата већ и из многобројности цитираних аутора. Овде су наведени ствараоци присутни у изложеној библиографији. Поред имена ту су G1 и G2 година првог и последњег овде присутног цитираног рада, N1 број цитираних радова, N2 број цитираних радова без аутоцитата разматраног аутора и N3 број цитираних радова без аутоцитата било кога од коаутора на раду.

Scientific results of serbian astronomers and researchers in this field, are present in international scientific community and influenced on the development of astronomy in XX century. This can be noticed not only on the basis of presented citations but also from the considerable number of cited authors. Here are listed authors present in the bibliography in this book. After the name are given G1 and G2, years of the first and of the last cited paper in the bibliography, N1 the number of cited papers, N2 the number of cited papers without autocitations of the considered author, N3 the number of cited papers without autocitations of any of coauthors on the paper.

Име – Name	G1	G2	N1	N2	N3
Angelov Trajko	1993	1993	1	1	1
Arsenijević Jelisaveta	1970	1990	19	15	15
Atanacković-Vukmanović Olga	1985	1995	5	3	2
Atanasijević Ivan	1952	1971	3	3	3
Brkić Zaharije	1951	1960	2	2	2
Bukvić Srdjan	1993	1994	2	2	2
Cvetković (Stančić) Zorica	1986	1992	6	2	2
Čadež Istok	1983	1996	2	2	2
Čadež M. Vladimir	1990	2000	11	9	9
Čelebonović Vladan	1981	1998	12	3	3
Čatović Zlatko	1990	1994	4	4	4
Ćirković M. Milan	1997	2000	9	2	2
Čuk Milivoje	1991	1991	1	1	1
Dačić Miodrag	1975	1992	16	6	6
Damljanović Goran	1994	1995	2	0	0

Име – Name	G1	G2	N1	N2	N3
Dimitrijević Milan	1975	2000	183	117	112
Djeniže Stevan	1990	1998	11	8	8
Djokić Milorad	1989	1989	1	1	1
Djurašević Gojko	1981	1998	17	14	12
Djurić Nada	1980	1980	1	1	1
Djurković Pero	1951	1969	5	5	5
Djurović Dragutin	1970	1996	30	20	20
Đurić Zoran	1994	1997	7	7	4
Erceg Vera	1972	1986	9	9	9
Erkapić Sanja	1995	1995	1	0	0
Gaković Branka	1990	1990	1	1	0
Grubor Davorka	1996	1996	1	1	1
Grujić Petar	1978	1995	13	12	10
Grujić Radovan	1973	1989	5	1	1
Ignjatović M. Ljubinko	1993	1995	4	1	0
Jankov Slobodan	1986	1998	18	11	10
Jelenković Branimir	1982	1982	1	1	1
Jovanović Bora	1988	1989	2	2	1
Jovanović Predrag	1997	1998	3	3	3
Knežević Zoran	1979	1998	38	30	26
Konjević Nikola	1971	1999	30	28	25
Konjević Ružica	1994	1994	3	3	2
Kršljanin Vladimir	1985	1994	8	8	6
Kubičela Aleksandar	1966	1995	24	19	18
Kuzmanoski Mike	1974	1996	8	5	4
Labat Jaroslav	1972	1996	8	8	6
Lazović Jovan	1967	1981	10	10	9
Lukačević Ilija	1968	1992	8	1	1
Lakićević Ilija	1983	1986	3	3	2
Ljepojević N. Nebojša	1988	1997	3	3	2
Marić Zvonko	1976	1976	1	1	1
Marković-Kršljanin Snežana	1993	1993	3	2	2
Mihajlov A. Anatolij	1986	1997	15	7	6
Mihajlović Jelenko	1947	1949	2	2	2
Mijatov Milan	1968	1975	2	2	0
Milanković Milutin	1908	1997	26	26	26
Milogradov-Turin Jelena	1970	1987	9	8	8
Milosavljević Vladimir	1998	1998	1	1	1
Milovanović Vladeta	1981	1981	2	2	1
Mišković V. Vojislav	1953	1974	2	2	2
Nikolić Ljubomir	1968	1968	2	2	2
Ninković Slobodan	1979	1995	24	11	11
Olević Dragomir	1975	1998	10	10	10

Име – Name	G1	G2	N1	N2	N3
Oskanjan Vasilije	1953	1982	20	20	20
Pakvor Ivan	1968	1968	5	5	5
Pavlović Rade	1994	1998	10	6	6
Pejović (Matorčević) Nada	1983	1990	6	5	4
Pivalica Saša	1993	1993	1	1	1
Platiša Mihajlo	1971	1996	11	11	10
Popić V. Relja	1983	1987	5	0	0
Popović Božidar	1949	1950	2	2	2
Popović Č. Luka	1991	1998	17	10	6
Popović M. Georgije	1964	1996	23	18	18
Popović M. Marko	1988	1989	2	2	2
Popović V. Milan	1975	1999	6	6	6
Protić Milorad	1937	1958	3	3	3
Protić-Benišek Vojislava	1975	1996	2	2	1
Purić Jagoš	1971	1993	7	7	7
Sadžakov Sofija	1968	1992	23	8	8
Samurović Srdjan	1994	1999	4	3	3
Savić Pavle	1981	1986	2	2	2
Simonović Nenad	1990	1995	4	3	3
Simovljević Jovan	1977	1979	2	2	2
Skuljan Jovan	1990	1999	3	3	3
Skuljan Ljiljana	1994	1994	2	2	2
Srećković Aleksandar	1990	1996	7	7	4
Stajić Dušan	1986	1986	1	1	1
Šaletić Dušan	1968	1982	10	10	3
Šegan Stevo	1987	1988	3	2	2
Ševarlić M. Branislav	1951	1982	10	10	9
Šulić Desanka	1973	1996	7	4	3
Tankosić Dragana	1999	2000	1	1	0
Teleki Djordje	1960	1987	19	16	16
Vince Ištvan	1974	1997	22	20	17
Vukićević-Karabin Mirjana	1977	1988	8	6	6
Zulević J. Danilo	1969	1994	23	23	23
Živkov Vesna	1996	1996	3	3	1

ИНДЕКС СРПСКИХ АУТОРА И ЊИХОВИХ КОАУТОРА

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БИОГРАФСКА БЕЛЕШКА

Милан (Сергија и Наде) Димитријевић рођен је 24. августа 1947. године у Лесковцу. Основну школу и класичну гимназију завршио је у Београду. На Природно - математичком факултету у Београду студирао је упоредо астрономију (дипломирао 1972) и физику (завршио 1973). Магистрирао је на истом факултету 1976. године, а 1978. одбранио и докторску дисертацију. У Институту за физику у Београду у Одељењу за спектроскопију плазме запослио се 1974. године. Године 1978. прелази у Институт за примењену физику у Лабораторију за физику и технику ласера, а 1983. године, заједно са целом лабораторијом у Институт за физику. На Астрономску опсерваторију у Београду долази 1. септембра 1984. Од 3. марта 1993. до 14. септембра 1994, М. С. Димитријевић је савезни министар за науку, технологију и развој, а 15. септембра враћа се на Астрономску опсерваторију, где се од 21. новембра 1994. до 1. јула 2002. налази на положају директора.

Научна библиографија М. С. Димитријевића обухвата преко 800 библиографских јединица од којих је око 180 у међународним научним часописима. Учествовао је на преко сто међународних конференција. На оваквим скуповима одржао је 16 уводних предавања по позиву, од којих је 11 у целини објављено у књигама монографског карактера познатих међународних издавача. Његови радови цитирани су више од две хиљаде пута, а могу се груписати у следеће области: 1. Спектроскопија звездане и лабораторијске плазме; 2. Физика Сунца; 3. Звездане атмосфере; 4. Атомски сударни процеси у астрономији и физици; 5. Физика плазме; 6. Физика ласера; 7. Семикласична теорија интегралних система; 8. Истраживања галаксија са активним језгрима; 9. Историја и филозофија природних наука.

Димитријевић је остварио и успешну међународну сарадњу са Париском опсерваторијом, Катедром за физику и астрономију Универзитетског колеџа у Лондону и универзитетима и астрономским институцијама у Тунису, Пољској, Белорусији, Русији, Грчкој, Бугарској, Украјини, Шпанији, Румунији и Мађарској. Организовао је више међународних и националних конференција: II Семинар "Астрофизика у Југославији" (Београд 1987), X Национална конференција астронома Југославије (Београд 1993), I Мађарско - југословенска астрономска конференција (Баја 1995), I-IV Југословенско - румунски скуп о астрономији (Темишвар 1995, Београд 1996, Клуж 1997 и Београд 1998), I - III Југословенско-Белоруски симпозијум о физици и дијагностици лабораторијске и астрофизичке плазме (Минск 1996, Златибор 1998, Минск 2000), I Југословенска конференција о облицима спектралних линија (Криваја 1995), IV Српска конференција о облицима спектралних линија (Аранђеловац, 2003), "Развој астрономије код Срба" I - III (Београд 1997, 2002, 2004) и I - IV Српско-Бугарски астрономски семинар (Белоградчик 1998, Зајечар 2000, Болечица (Рила) 2002, Београд 2004). Димитријевић је

био главни и одговорни уредник научног часописа "Bulletin Astronomique de Belgrade" од 1987. до 2002, који од 1998. излази под називом "Serbian Astronomical Journal". Био је главни и одговорни уредник и серије публикација "Publications of the Astronomical observatory of Belgrade" (1987 - 2002).

Велику пажњу Димитријевић посвећује и педагошком раду и ширењу астрономских знања у нашој средини. На постдипломске студије астрофизике увео је предмет "Астрономска спектроскопија" за који је написао и одговарајућу књигу. Заједно са А. Томићем написао је уџбеник из Астрономије за IV разред гимназије природно - математичког смера, који је имао шест издања на српском и по једно на македонском и албанском језику. Водио је и научно формирао неколико доктора и магистара. Председник је Астрономског друштва "Руђер Бошковић" од 1982. до 2004. и главни и одговорни уредник часописа "Васиона" од 1985. до 2004. У "Васиони", "Младом физичару", "Политици", "Галаксији", "Дневнику", "Техничким новинама", "Науци и природи" и другим листовима и периодичним издањим објавио је 227 популарних чланка и прилога из астрономије и физике. Написао је и снимео за школски програм на телевизији пет серија о астрономији ("Свет комета", "Ново о планетама", "Астрономска почетница", "Сунце - наша звезда", "Постанак и судбина васионе"). Прве три серије, Завод за уџбенике и наставна средства издао је као видео касете. Написао је сценарио и организовао снимање две полчасовне емисије о Астрономској опсерваторији, што је ова установа 2002. године издала као видео касету. М. Димитријевић је одржао и више од 200 научно - популарних предавања у школама, библиотекама и факултетима широм Србије, а имао је и велики број наступа на радију и телевизији.

Живи и ради у Београду.

Нада Димитријевић

BIOGRAPHICAL NOTE

Milan S. Dimitrijević (parents: Sergije and Nada) was born on August 24, 1947 in Leskovac. He finished primary and secondary school (Secondary School for the Classics) in Belgrade. He graduated from the Faculty of Sciences - Department of Astronomy of the University of Belgrade (1972) and from the same Faculty - Department of Physics (1973). Having finished post graduate studies of the Faculty of Sciences (Section of Physics: Physics of Ionized Gases), he defended his Master of Science Thesis in 1978 and his doctoral dissertation (Ph.D.) on November 3, 1978 at the same Faculty. Since the 1st January 1974 he was employed in the Institute of Physics, Belgrade (Department of Plasma Spectroscopy); from the 1st January 1978 in the Laboratory of Laser Physics and Technology of the Institute of Applied Physics, Belgrade and from the 1st September 1984 in the Astronomical Observatory, Belgrade. He was Minister of Science, Technology and Development of the Federal Government from the 3rd March 1993 to the 14th September 1994. He came back to the Astronomical Observatory on the 15th September 1994 where he was the director from November 21, 1994 to July 1, 2002.

Dimitrijević's scientific bibliography has more than 800 units and about 180 of them are published in international scientific journals. He attended more than a hundred international conferences where he gave 16 invited lectures out of which 11 have been published in *books of international publishers*. His scientific results are frequently cited in the world literature (more than two thousand citations). His works may be divided in the following research fields: 1. Spectroscopy of stellar and laboratory plasma; 2. Solar physics; 3. Stellar atmospheres; 4. Atomic collision processes in astronomy and physics; 5. Plasma physics; 6. Semiclassical theory of integrable systems; 8. Investigations of galaxies with active nuclei; 9. History and philosophy of natural sciences.

Dimitrijević has a successful international collaboration with Paris Observatory, Department of physics and astronomy of the University College in London and with universities and astronomical institutions in Tunis, Poland, Belarus, Russia, Greece, Bulgaria, Ukraine, Spain, Romania and Hungary. He organized several international and national conferences: II Seminar "Astrophysics in Yugoslavia" (Belgrade 1987), X National Conference of Yugoslav Astronomers (Belgrade 1993), I Hungarian - Yugoslav Astronomical Conference (Baja 1995), I - IV Yugoslav - Romanian Astronomical Meeting (Timisoara 1995, Belgrade 1996, Kluj 1997 and Belgrade 1998), I - III Yugoslav-Belarussian Symposium on the Physics and Diagnostics of Laboratory and Astrophysical Plasma (Minsk 1996, Zlatibor 1998, Minsk 2000), I Yugoslav Conference on Spectral Line Shapes (Krivaja 1995), IV Serbian Conference on Spectral Line Shapes (Arandjelovac, 2003), "Development of Astronomy among Serbs" I - III (Belgrade 1997, 2002, 2004) and I - IV Serbian-Bulgarian Astronomical Meeting (Belogradchik 1998, Zajčar 2000, Gjolechica (Rila) 2002, Belgrade 2004). From 1987 to 2002

Dimitrijević was editor-in-chief of "Bulletin Astronomique de Belgrade" published from 1998 under the name of "Serbian Astronomical Journal". He was also editor-in-chief of the "Publications of the Astronomical Observatory of Belgrade" (1987-2002).

Dimitrijević pays great attention to the pedagogical activity and to the popularization of astronomy in our midst. He introduced "Astronomical spectroscopy" in postgraduate studies of astrophysics and wrote the corresponding textbook. Together with A. Tomić he wrote the textbook on Astronomy for the IV year of the secondary school, which had six editions in Serbian, one in Macedonian and one in Albanian. He supervised several Ph.D. and M.Sc. theses. He was also the president of the astronomical society "Rudjer Bošković" (1982-2004) and editor-in-chief of the popular-scientific journal "Vasiona" (1985-2004). He published 227 popular-scientific articles and contributions to astronomy and physics in "Vasiona", "Mladi fizičar", "Politika", "Galaksija", "Dnevnik", "Tehničke novine", "Nauka i priroda" and other newspapers and magazines. He is the author and executor of five popular-scientific TV series on astronomy ("The world of comets", "New about old planets", "Astronomy for beginners", "The Sun - our star", "Origin and fate of the Universe"). The first three series have been edited by "Zavod za udžbenike i nastavna sredstva" (Institution for textbooks and educational equipment) as video cassettes. He wrote the scenario as well and organized the production of two-30 minute transmissions for TV on Astronomical Observatory, edited later in 2002 by this institution as a video cassette. M. S. Dimitrijević gave also more than 200 popular-scientific lectures in schools, libraries, and faculties all over Serbia, and a number of activities on TV and radio regarding the popularization of science.

Milan S. Dimitrijević lives and works in Belgrade.

Nada Dimitrijević

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