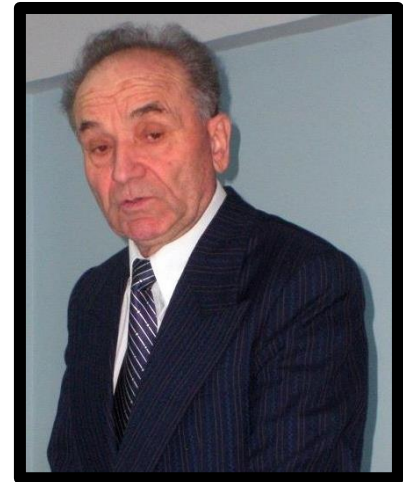


## Professor Constantin Savin, Life and Activity

Lecturer univ. Ph.D Diana SAVIN<sup>1</sup>

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Constantin Savin was born on February 24th, 1937, in the village Hangu, commune Hangu county Neamt, Romania. From 1951 to 1954, he was a student at "Petru Rares" High School, in Piatra Neamt. In 1959, he graduated the "Alexandru Ioan Cuza" University of Iași, Faculty of Natural Sciences and Geography, Department of Geology-Geography, institution where he also got his Ph.D in Geography, in 1976, under professor Constantin Martiniuc, with the thesis "The geohydromorphological study of the Jiu lowlands in the Getic Plateau and the Plain of Oltenia". Through his thesis, the author delivered an original and important contribution to the study of the Jiu river's meadow and river bed dynamics.

During the doctoral and post-doctoral periods, Constantin Savin graduated the following courses:

- "The draining of rivers. Hydrological calculations" postgraduate course, organized by UNESCO at the Lomonosov University in Moscow, part of the "International Hydrological Programme (IHP)", between June and July 1969;
- "Applications of mathematics in hydrology" course, organized by the Meteorology and Hydrology Institute (MHI), Bucharest, in May, 1973;
- "Hydrology" course organized by the Civil Engineering Institute, Faculty of Hydraulic Engineering, Bucharest, in the 1979-1980 school year. At the course's final exam, Constantin Savin presented the article "The characteristics of flash flood rays in the drainage basin of river Jiu";
- "Applied hydrology" course, organized by the Meteorology and Hydrology Institute (MHI) Bucharest, in 1986, over the course of nine months.

The professional evolution of Constantin Savin was remarkable:

- First, he was a secondary school teacher in commune Rediu, Neamț county during the school

year 1959-1960, then in commune Buda, Bacău county, between 1960 and 1961;

- Between 1961 and 1964, Constantin Savin worked as a hydrologist (responsible over station) at the Hydrological Station Bacău (part of Iași Water Directorate). Between 1964-1966, he worked as Chief Hydrologist within the same unit;

- He functioned as chief hydrologist at the Hydrological Station Craiova between 1966 and 1968;

- At the establishment of the Meteorological and Hydrological Sector (MHS), Craiova (later Jiu Water Directorate, Craiova), Constantin Savin was promoted to Chief Hydrologist over the entire country of Oltenia (which was the target of his transfer from Bacău). He remained within the unit as Chief Hydrologist for 8 years (1967-1975), for 14 years as Chief of Hydrology-Hydrogeology (following the unification of the two departments) between 1976 and 1990, for one year as Chief Hydrometeorologist (1990-1991), then for 8 years as CTO of the Craiova Branch of "Apele Române" Autonomous Management;

- In the school year of 1967-1968, Constantin Savin joined the University of Craiova, Faculty of History-Geography, as a assistant professor and, later, as lecturer, teaching Hydrology (course and seminary). Afterwards, after the promulgation of the law banning cumulating functions, during the summer of 1968, Constantin Savin decided to give up the job. Sometime later, the Geography Department of the Faculty was dissolved;

- Between 1975 and 1978, due to the delegation of wife Elena Savin (Mathematics teacher) to the Kingdom of Morocco, part of the technical and scientific collaboration between countries, Constantin Savin was also delegated to work as an engineer in Hydrology-Hydrogeology, also in Morocco, part of Public Administration and Communications Ministry,

Hydraulic Directorate, Water Resources Division, Regional center of Tadla in the town of Beni Mellal;

- Between 1991 and 1992, Constantin Savin taught Hydrology at Post-secondary School of Hydrometeorology in Craiova. At the same time, he was an associate professor, teaching Hydrology-Hydrogeology (course, workshops, exams), at Faculty of Ecobiotechnology, in Caracal, Romania;

- Between 1992 and 1993, Constantin Savin functioned as associate professor at University of Craiova, Faculty of Sciences, Geography-Geoecology Department, for Hydrology (course, workshops, seminars, exams, field work) and at "Lower Danube" University of Galați, Faculty of Letters-Sciences, History-Geography Department, for Meteorology-Climatology (course, workshops, exams) and Hydrology (course, workshops, exams) – despite functioning as an associate professor, he was paid as a lecturer only.

- Between 1994 and 1995, Constantin Savin was an associate professor at University of Târgoviște, Faculty of Sciences;

- Between 1994 and 1997, Constantin Savin was a lecturer at University of Craiova, Faculty of Sciences, Geography-Geoecology Department;

- In 1997, his activity at Jiu Waters Directorate comes to an end, after which he obtains the associate professor position at University of Craiova, Faculty of History, Philosophy and Geography, Geography Department;

- In 2002, Constantin Savin wins the position of Professor (titulary) at University of Craiova, Faculty of History, Philosophy and Geography, Geography Department;

- Between 1999 and 2008, at the same time with his work at the Faculty of History, Philosophy and Geography, Constantin Savin also teaches at Faculty of Horticulture, at University of Craiova;

- At the end of the school year of 2007-2008, Constantin Savin retires.

Professor Constantin Savin wrote the following works (treaties, monographies courses):

- Constantin Savin, Jiu meadow water resources, Scrisul Românesc Publishing House, Craiova, 1990;

- Constantin Savin, Scientific Polyglot Dictionary, Tipored Publishing House, Bucharest, 1996;

- Constantin Savin, Scientific Polyglot Dictionary - Glossary, Tipored Publishing House, Bucharest, 1997;

- Viorica Tomescu, Vasile Pleniceanu, Constantin Savin, General physical geography (Tests for admission in higher education forms), Universitaria Publishing House, Craiova, 1990;

- Constantin Savin, Underground waters of Craiova, Tipored Publishing House, Bucharest, 2000;

- Constantin Savin, Hydrology of Rivers – theory and applications, Reprograf Publishing House, Craiova, 2001;

- Constantin Savin, Physical geography of Romania, course for students, University of Craiova, Craiova, 2003;

- Constantin Savin, Ion Marinica, Synoptical Meteorology (course support for the students of Faculties of Geography and Environment Engineering), published on CD, University of Craiova, Autograf Publishing House MJM 2007, ISBN 973-8989-13-2 (Romania), ISBN 978-973-8989-13-9 (E.U.), 2003, 2007 respectively;

- Constantin Savin, Rivers of Oltenia. Hydrological phenomena of high risk, Sitech Publishing House, Craiova, 2004;

- Constantin Savin, Hydrology and the protection of water quality, Sitech Publishing House, Craiova, 2006, University of Craiova, Faculty of Horticulture;

- Constantin Savin, Special meteorology and hydrology problems – course for students, University of Craiova, Craiova, 2006;

- Constantin Savin, Rivers of Oltenia – hydrological monography, vol. I – The dynamics of river drainage, Sitech Publishing House, Craiova, 2008.

Constantin Savin had been interested into scientific research and theoretics (apart from his work obligations) since 1965-1970, interest which had taken a variety of forms: research articles, synthesis, studies, books, participation (with or without holding a discourse himself) in scientific conferences, both national and international, participation in courses, local press interviews, interviews and discussions over scientific matters, at the territorial Radio Craiova studio, reviews of certain books (as a scientific reviewer), reviews of Ph.D thesis (also as a scientific reviewer to some).

Professor Constantin Savin wrote over a hundred research articles, studies and pages of synthesis (out of which thirteen abroad, two in France and eleven in Morocco), over 85 of which were published in magazines with reviewers. To mention a few:

1. Guessab Driss, Constantin Savin, La possibilité d'émettre des prévisions d'apports d'été au réservoir de Bin El Ouidane, published in Notes techniques de l'hydraulique - Série Hydrologie, March 1976 (Royaume du Maroc, MTPC, DH, DRE, Rabat);

2. Constantin Savin, Exploitation des mesures de débit d'étiage des rivières aux fins de prévision de fourniture d'eau pour l'irrigation, published in Notes techniques de l'hydraulique - Série Hydrologie, May 1976 (Royaume du Maroc, MTPC, DH, DRE, Rabat);

3. Constantin Savin, Etude des débits au maximum de l'oued Ourbia (Akka N'Khelifa), publicata in Notes techniques de l'hydraulique- Série Hydrologie,

December 1976 (Royaume du Maroc, MTPC, DH, DRE, Rabat);

4. Constantin Savin, *L'étude hydrologique de l'oued Ikaben*, published in *Notes techniques*, no.4/1976 (MTPC, DH, DRE, Centre Régional du Beni Mellal, Maroc);

5. Constantin Savin, *Contributions to the hydrological study of the Craiova area (partial results)*, published in *Lucrarile Seminarului geografic "D. Cantemir"*, nr. 3/1982, Univ. Iasi;

6. Constantin Savin, *The characteristics of flash flood rays in the drainage basin of river Jiu – detailed study*, published in *Hidrotehnica*, nr. 9/1983, CNA, Bucharest;

7. Constantin Savin, *Contribution à l'étude de la dynamique des versants à base des mesures hydrotopométriques*, Symposium the role of geomorphological field experiments in land water management, August 25-September 3, 1983, Bucharest (University of Bucharest, Institute of Geography of the Romanian Academy), published in the volume *Geomorphological research for land improvement*, under ISPIF, Bucharest, University of Bucharest, Institute of Geography of the Romanian Academy, Bucharest, 1985;

8. Nicolae Ghigiu, Constantin Savin, *Hydro-meteorological data valorification towards rational exploitation of water volumes from the "Valea de Pești" Dam*, published in *Hidrotehnica*, nr. 11/1994, RAAR, Bucharest;

9. Constantin Savin, *L'écoulement minimum sur la rivière de Jiu pendant la période de sécheresse 1992-1993*, 3-èmes Rencontres Hydrologiques Franco-Roumaine, Montpellier, September 6-8, 1995 (special volume);

10. Constantin Savin, *L'assèchement des rivières dans l'espace hydrographique Jiu-Danube. Etude de synthèse*, published in *Les travaux de 3-èmes Rencontres Hydrologiques Franco-Roumaine*, Montpellier, September 4-8, 1995 (special volume);

11. Constantin Savin, Elena Savin, *Climate of Oltenia towards aridity*, published in *Hidrotehnica*, nr. 6/1995, RAAR, Bucharest;

12. Constantin Savin, *Contributions to the analysis of the aquiferous layers with free level within the Craiova Area*, published in *Analele Universitatii din Craiova, sectia Geografie*, nr. 3/1999;

13. Constantin Savin, Viorica Tomescu, *Human-induced Changes of the Danube alluvial plain. Landscape within Drobeta Tr. Severin-Corabia Area*, published in *Analele Universitatii din Cluj-Napoca, Facultatea de Geografie*, nr.3/1999;

14. Constantin Savin, *Contributions towards determining the underground water quality in the Craiova area*, published in *Hidrotehnica*, vol. 46, nr. 1/2001, p. 16-22, CNAR, Bucharest;

15. Constantin Savin, *The hydrometrical method of evaluation of the minor riverbed dynamics*. Applied

to river Jiu, published in *Analele Universitatii din Craiova, sectia Geografie*, nr.4/2001;

16. Constantin Savin, *The evaluation of underground water resources in the perimeter of the Craiova area*, published in *Geoforum*, nr.1/2001, Univ. din Craiova, sectia Geografie;

17. Constantin Savin, *The variation of the annually drain of water for the main rivers of Oltenia*, published in *Hidrotehnica*, vol. 47, nr. 12/2002, p. 11-16, Bucharest;

18. Ion Marinica, Constantin Savin, *Canicular days, climatic risk, phenomenon in Oltenia*, published in *Ovidius University Annals of Geography*, vol. 2/2005, p.111-124;

19. Constantin Savin, Ion Marinica, *Brussels - Craiova – a climatic parallel*, published in *Ovidius University Annals of Geography Volume 2/2005*, p. 135-144;

20. Constantin Savin, *The variation of medium water deposits drainage on the rivers of Oltenia in the past 50 years*, published in *Lucrarile Seminarului geografic "D. Cantemir"*, nr. 25/2005, Univ. Iasi, p.77-85.

The books and articles of professor Constantin Savin have been quoted not only in many Romanian journals, but also abroad, in *Journal Cold Regions Science and Technology (Elsevier)*, in *Central European Journal of Geosciences (Versita)*, etc.

In 1975, Constantin Savin was among those who contributed to the transformation of Meteorological and Hydrological Sector (MHS), Craiova, into Jiu Water Directorate, Craiova. After the revolution of 1989, he was among those who contributed to the reestablishment of the Geography-Geology Department at Faculty of Sciences, University of Craiova. Also, he was one of the founders of the Hydrological Sciences Association of Romania.

Professor Constantin Savin was the Romanian hydrologist who introduced the notion of "exceptional hydrological risk", as an effect of the current climatic changes.

For many years, Constantin Savin was a board member of the following journals: *Romanian Journal of Hydrology – Water Resources* (edited in 1994 by MMHI, Bucharest), the "Hidrotehnica" journal, *Annals of the University of Craiova (the Geography series)*, the *Geographical Phorum*.

Professor Constantin Savin was a scientific reviewer of the following books:

- Elena Gavrilescu, Ion Olteanu, *The environmental quality (II). Monitoring the water quality*, Universitaria Publishing House, Craiova, 2003;

- Elena Gavrilescu, Ion Olteanu, *The environmental quality (III). Air analysis and monitorization methods*, Universitaria Publishing House, Craiova, 2003;

- Elena Gavrilescu, *Water Quality: Vol. 1: Aquatic environment pollution*, Sitech Publishing House, Craiova, 2006;

- Elena Gavrilescu, Water Quality: Vol. 2: Aquatic ecosystems evaluation, Sitech Publishing House, Craiova, 2006;
- Elena Gavrilescu, Pollution sources and environmental polluting agents, Sitech Publishing House, Craiova, 2007;
- Elena Gavrilescu, General notions of Ecotoxicology, Sitech Publishing House, Craiova, 2008;
- Elena Gavrilescu, Bogdan Filip Gavrilescu, The characteristics and the source of used industrial waters and their influence, Sitech Publishing House, Craiova, 2009;
- Elena Gavrilescu, Ecotoxicology: Aspects and problems, Sitech Publishing House, Craiova, 2011;
- Elena Gavrilescu, Gilda Diana Buzatu, Environment-depolluting methods, Sitech Publishing House, Craiova, 2013.

Professor Constantin Savin had professional connections to various colleagues in Romania: Faculty of Hydrotechnics, University of Bucharest, "Spiru Haret" University, Romanian Academy Geography Institute, INMH, ICIM, C.N.A.R. in Bucharest, the universities of Iasi, Cluj-Napoca, Timisoara, Oradea, the colleagues from Water and Environment Management System and „Apele Române" National Company, from numerous cities. Professor Constantin Savin had professional connections to various colleagues from abroad: France (Paris School of Mines, University of Sorbonne, I.H.P. National French Committee), Switzerland (O.M.M.), Belgium (Royal Meteorological Institute), Israel (in Tel Aviv), Kingdom of Morocco (Hydraulic Directorate, Rabat, Beni Mellal), Ukraine (University of Cernivtsi), Moldova (State University of Tiraspol, Hydrometeorological Directorate in Chisinau).

Professor Constantin Savin was member of the following prestigious scientific societies, in Romania and abroad:

1. Founder of the Romanian Hydrological Sciences Association, Headquarters at MMHI Bucharest;
2. Member of Geographical Sciences Society of Romania;
3. Member of Geomorphological Association of Romania;
4. Member of the Romanian National Committee of the International Hydrological Programme.

Professor Constantin Savin wrote appreciative reviews for 14 Ph.D thesis at I.P. Bucharest, I.C. –

Faculty of Hydrotechnics, Bucharest, Universities of Cluj-Napoca, Iasi, Bucuresti, Romanian Academy Geography Institute, MMHI Bucharest.

Professor Constantin Savin had an intensive collaboration with the mass-media, the press, Radio Craiova, Teleuniversitaria Studio, Regional Craiova Studio of the Romanian Television: until 1998, as the Spokesperson of Water Directorate Craiova, and then of Geography Department of University of Craiova.

For his professional activity, professor Constantin Savin was awarded the following medals:

- Honorary Medal and Diploma, awarded by C.N.A. and I.N.M.H. on the occasion of celebrating the „Romanian Meteorology and Hydrology Institute Centenary", for exceptional contributions to the named disciplines in Romania;
- Medal for „Exceptional activity during the floods of October 1972", awarded by State Council;
- Medal for „special merits in the development of Hydrological and Meteorological activities in Romania", in 1974;
- Diploma awarded by ROMAG Dobreta Turnu Severin, on the occasion of the 10th Anniversary of the water factory establishment, „for his contribution to the development of nuclear energy in Romania";
- Honorary diploma, issued by University of Bucharest, Faculty of Geography, on the occasion of a century of geographical studies at University of Bucharest;
- Honorary diploma, awarded by the Romanian Geography Society on the occasion of its 125th Anniversary.

On 26th of August 2017, professor Constantin Savin passed away.

## Acknowledgements

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English translation of  
Alexandra Pasparuga