



PROFESSOR MARIAN-TRAIAN GOMOIU,  
MEMBER OF THE ROMANIAN ACADEMY,  
ON HIS 80<sup>th</sup> ANNIVERSARY

On the 15<sup>th</sup> of August 2016, Marian-Traian Gomoiu reached the honourable age of 80 as a distinguished marine biologist, oceanographer, university Professor, following the path opened by Academician Grigore Antipa in Romanian hydrobiology and as one of Academician Mihai C. Băcescu's successors, achieving exceptional scientific results in marine research.

M.-T. Gomoiu was born in a family of teachers in the town of Bazargic (nowadays in Bulgaria); the turmoil of historical events relocated the family to the village of Gura Dobrogei and then to Constanța – the old Tomis on the Black Sea coast, the exile place of the Roman poet Ovid. He attended the primary school at Gura Dobrogei, where his parents were his teachers and then, the family moving to Constanța, he studied at the famous “Mircea cel Bătrân” National College till graduation, in 1954.

Academician Marian-Traian Gomoiu acquired a thorough scientific education at the Faculty of Natural Sciences and Geography – “Victor Babeș” University in Cluj (1954–1958). During the years of university studies he attended lectures and

successfully defended exams in a wide range of subjects, such as: botany, zoology, elements of geology with knowledge of palaeontology, cartography-topography, general chemistry, biogeography, comparative and human anatomy, botany, systematic, invertebrate and vertebrate zoology, climatology, geomorphology, hydrology, histology-embryology, plant physiology, Darwinism, biochemistry, crop plants, psychology, physical geography, economical geography, political economy, pedagogy, animal and human physiology, techniques of preparing biological materials, methods of teaching natural sciences and geography etc. and finally he graduated as University Diplomat.

Immediately after graduation, he got a position as a teacher at the General School at Mateești, Horezu, for a few months (September–December 1958); then, at the beginning of 1959, he undertook the newly established Oceanography Laboratory of the Romanian Academy in Constanța, where he worked actively as a scientific researcher, continuously specializing, in Romania and abroad, in the study of marine biology, biodiversity, particularly benthic fauna. He started with the sponges and nudibranchiate molluscs – groups less studied at that time at the Romanian Black Sea shore – and gradually extended his researches to other groups of benthic invertebrates – bivalves, crustaceans, echinoderms, coelenterate. After the establishment of the Romanian Institute for Marine Research in Constanța, he worked within this institution and, over time, climbed the steps of scientific hierarchy from a researcher to a senior scientist, reaching the position of Head of Agigea Laboratory within the institute.

In 1973 he received the PhD title in Biology (invertebrate zoology, biological oceanography, limnology, marine ecology, benthos, malacology and sedimentology) at the Bucharest Institute of Biological Sciences, where under the scientific coordination of Academician Mihai C. Băcescu he elaborated the thesis entitled “*Contributions to the knowledge of the ecology of psamobiotic molluscs from the sandy submarine beaches on the Romanian Black Sea seaside*”, thus becoming a specialist in a new field of marine scientific research in our country.

The areas of expertise, in which he excelled throughout his scientific activity, were marine ecology and biodiversity studies. He has brought important scientific contributions of sinecological, autecological, descriptive and comparative nature to the knowledge of the dynamics of all benthic biocenoses and also significant contributions to the knowledge of the eutrophication phenomenon, being the author of the concept of “marine eutrophication syndrome” in the Black Sea. He is also a scientific pioneer in other fields – he is the first in Romania to study the epibiosis of ships and submersible constructions, as well as the marine gelatinous plankton; he has set the course for studying the biology of invasive species at the Romanian seashore, and, in parallel with the ecological study of marine life, he has made important contributions in the field of ecological reconstruction of shallow marine areas through the construction of artificial reefs.

In addition to the scientific laboratory work, Professor M.-T. Gomoiu is also noted as an excellent organizer and leader of the sampling campaigns or scientific

expeditions organized annually, first at the beginnings of the Oceanography Laboratory of the Romanian Academy in Constanța and later at the Romanian Institute for Marine Research in Constanța or the National Institute for Research and Development for Marine Geology and GeoEcology. Besides the scientific expeditions in the Black Sea carried out by Romanian ships, he participated in a series of international oceanological expeditions in mixed teams. Mention must be made of the expeditions in the Sargasso Sea – with the US-based research vessel “Eastward”, in Batabano Bay – with the Cuban ship “Xiphias”; in the Isefjord area – with the “Ophelia” ship. Likewise, he regularly participated in the Black Sea international expeditions on board of the “Vițjaz” and then “Prof. Vodyanitsky”. In 2003 he led the international expedition “*Control of eutrophication, hazardous substances and related measures for rehabilitating the Black Sea ecosystem*” under the aegis of the GEF/UNDP Black Sea Ecosystem Recovery Project”.

During the doctoral and postgraduate period, he attended several training courses abroad: the marine benthos study scholarship and the organic physiology of marine organisms (November 1969 – June 1970) at the Zoological Museum, the Institute of Physiology and Research Marine Research Center Helsingor – participation on the basis of winning the competition for a scholarship granted by the Ministry of Education in Denmark; “International Multidisciplinary Course in Marine Science”, organized by the Duke University Marine Laboratory, Beaufort, NC USA (April 1 – May 31, 1974) – participation on the basis of a UNESCO / Rockefeller Foundation Joint Scholarship following the recommendations made by Academician Mihai C. Băcescu and Academician Eugen A. Pora, summer courses “Ecophysiology of marine organisms” organized by Duke University Marine Laboratory, Beaufort, NC USA (1 June – 31 July 1974) – participation based on a scholarship granted by Duke University on the basis of the good results obtained in the pluridisciplinary international course of specialization in marine sciences; PHARE Training Course: Environmental Impact Assessment, Environmental Balance and Integrated Coastal Zone Management in the Black Sea.

Answering the request of the scientific elite in Constanța, Professor Gomoiu joined in 1990 the initiative group that established the “Ovidius” University, starting from the beginning with the Faculty of Biology, set up in April 1990, as a lecturer, and later as Associate Professor. Since 1990 he was a PhD coordinator in Ecology at Ovidius University, bringing an unequivocal contribution not only to the training of generations of students, but also to the scientific and professional training of current professors within the Faculty of Natural Sciences and Agricultural Sciences, delivering lectures in General Ecology, Population and Ecosystem. He also remains the main initiator of the Masters’ first program at the Faculty of Biotechnology and Marine and Coastal Ecotechnics.

M.-T. Gomoiu started a series of research topics in the field of biodiversity inventory and study of invasive species, research themes included in the faculty's scientific portfolio, which allowed the followers to carry out monographic syntheses or led to the identification of new invasive species at the Romanian seaside. The Research Center for Biodiversity Studies, later based on a master's

program and representing the nucleus around which the current research center of the faculty was shaped, began its activity at the initiative of Professor Marian-Traian Gomoiu, who has practically created a school of marine biology and marine ecology specialists at the University of the old Tomis.

Between 1990–1993, Marian-Traian Gomoiu was in charge of the Danube Delta Biosphere Reserve, as Governor, under the authority of the Romanian Environment and Waters Protection Ministry. Thus, the first Governor of the Danube Delta Biosphere Reserve had the possibility to successfully prove his skills in organizing the new institution and managing the new protected area.

In 1994 he returned, for a few months, to the Romanian Institute of Marine Research in Constanța as a senior scientific researcher and then, between 1994 – 2009, occupied the position of Deputy Director at the Romanian Centre for Marine Geology and GeoEcology Bucharest – Constanța, which, in 1996, became the Research and Development National Institute for Marine Geology and Geoecology – GeoEcoMar, leading the Constanța branch of the institute.

Starting with 1994 he mainly dedicated himself to the didactic career (lectures, seminars, laboratory works, PhD. scientific adviser) as a tenor Professor of Ecology at “Ovidius” University. At the same time, as senior scientist, Marian-Traian Gomoiu continued his researches in the Danube-Danube Delta – Black Sea macro-geo-ecosystem, being the leader of many scientific research projects within the Programmes of the National Institute of Research and Development for Marine Geology and Geoecology, as well as Scientific Adviser of the General Manager. Among the most important topics of these projects mention must be made of:

- Qualitative and quantitative structure and distribution of benthos populations in the Black Sea;
- Evolution of installation of the allochthonous invasive species in the Black Sea and their ecological effects;
- Formation of epibiosis on the submerged substrata in the sea and testing methods to limit and control of fouling;
- Causes, consequences and perspectives of the Black Sea eutrophication;
- Oxygen conditions monitoring in the Black Sea waters, especially at the oxic/anoxic interface;
- Ecological recovery of marine ecosystems under human and nature impact and valuation of natural resources;
- Ecological management of marine environment and sustainable development.

As a PhD scientific adviser concerning “Ecology and Environment Protection” he worked both at “Ovidius” University of Constanța and the Institute of Biology of the Romanian Academy in Bucharest.

Professor Gomoiu’s bibliographic list of scientific papers is impressive, surpassing 200 titles: scientific papers published in specialized journals in Romania and abroad, substantially contributing to bringing to the international scientific community the complex issues of marine ecology in the area of the Black Sea. The

most important scientific works can be found in the five-volume series of Marine Ecology, published between 1965–1976 under the aegis of the Romanian Academy; the volumes have become true milestones in marine scientific research in the Black Sea Basin. Thus, he became well-known as a genuine morphologist, taxonomist and ecologist, being invited and successfully bringing his contribution as a very active member of the following scientific structures in Romania and abroad: *the International Commission for Scientific Exploration of the Mediterranean Sea (CIESMM)*; *the International Society for the meiobenthos study (small benthic marine invertebrates) “Psammonalia”*; *the Italian Society of Malacology*; *the Romanian Society of Ecology*; *the Romanian Society of Limnology*; *the Romanian Society of Ornithology*; *the Romanian Society of Ichthyology*; *the American Association for Advancement of Science (AAAS)*; *the North American Society of Scientists in Benthos (NASB – North American Society of Benthologists)*; *the Romanian Association for the Club of Rome* etc.

Professor Marian-Traian Gomoiu held important responsibilities in different professional organizations: President of the *Romanian Committee of the International Association for the Danube Researches*; Member of the *Coordination Committee of the National Centre for Sustainable Development*; President of the *Oceanological and Limnological Commission of the Romanian Academy (COLAR)*; Member of the *National Committee UNESCO for Oceanology*; President of *National Committee for International Union of Biological Sciences (IUBS)*; between 2001–2009, he worked as an expert evaluator in his specialty – ecology – at the *National Council for Scientific Research in Higher Education (CNCSIS)*.

He was also member and Editor-in-Chief of many prestigious scientific journals in the field of biological sciences: *Romanian Journal of Biology – Zoology* – Editor-in-Chief; *Romanian Fauna* academic series – Editor-in-Chief; *GeoEcoMarina* – Responsible Co-editor; *Annals of “Ovidius” University, Constanța* – Biology – Responsible Editor; *Annals of the University in Oradea, Faculty of Biology* – Member of the Editorial Board; *Travaux du Muséum National d'Histoire Naturelle “Grigore Antipa”* – Member of the Editorial Board; *Oltenia Journal for Studies in Natural Sciences* – Member of the Editorial Board.

With his innovative and welcome suggestions, Marian-Traian Gomoiu substantially contributed to improve the scientific programmes of different academic institutions in the country and he was elected as a member of the Scientific Councils and Colleges from the National Research and Development Institute for Marine Geology and Geocology (GeoEcoMar), the National Institute for Marine Research and Development “Grigore Antipa” Constanța, the Institute for Eco-Museum Research “Simion Gavrilă” in Tulcea, the Danube Delta Biosphere Reserve, the National Commission of Coastal Area.

Professor Gomoiu’s scientific activity has been highly appreciated; thus, in 1993, he was elected as correspondent member of the Romanian Academy and, later, in 2015 he became full member. Likewise, he was granted the title of “*Doctor honoris causa*” by “Vasile Goldis” University in Arad and also he was

given the title of Emeritus Professor by “Alexandru Ioan Cuza” University of Iassy and “Ovidius” University Constanța, all this being in recognition of a lifetime work in the field of marine research, nature conservation and education. He was awarded the “Emanoil Teodorescu” Prize of the Romanian Academy (1987) and was the winner of the Special Prize at the 2<sup>nd</sup> edition of the “Ovidius” National Book contest in Constanța (2003) for “*Ecology. Methodologies for ecological sciences*”.

**In brief:**

**Professor Marian-Traian Gomoiu carried out a complex activity of scientific research** in the field of Biological Oceanography, with application to the Black Sea, and developed knowledge of the Danube and the Danube Delta biology. He actively participated in numerous national and international research projects, either as a leader or coordinator or as a member of scientific teams, being directly involved as a coordinator of sea expeditions or as a team member on different Romanian and foreign research vessels: R/V *Mare Nigrum*; R/V *Akademik*; R/V *Prof. Vodzanitzkyi*; R/V *Parshin*, etc.

**Teaching activities at “Ovidius” University** in Constanța – he evolved from the position of lecturer to university professor, PhD scientific adviser of more than 25 PhD students, who obtained their PhD Diploma in biology. Today, most of them are scientists in different academic institutions (research or teaching) in Romania and also abroad.

**Main lectures given to students and Master’s students** were: ecology; population and ecosystem; marine ecosystems; biodiversity and sustainable development; methods of scientific research; oceanology; systemomics/managing business and scientific activities; ecological monitoring; methodology of impact studies, etc.

Besides the two main directions of his activity, research and teaching, Academician Marian-Traian Gomoiu was deeply involved in the management of different institutions, proving his successful abilities as a manager of the National Institute of Research and Development for Geology and Marine Geoecology – GeoEcoMar, the Danube Delta Biosphere Reserve Authority and the Faculty of Natural Sciences and Agriculture at “Ovidius” University Constanța.

At his 80<sup>th</sup> anniversary, Academician Marian-Traian Gomoiu has to face severe health problems. We wish him, from all our heart and soul, to keep his courage, his optimistic spirit, his strong sense of life – things we have always admired, to cross life’s obstacles and problems, and we trust that his moral strength and remarkable mind will be more powerful than his illness. We support him.

**HAPPY BIRTHDAY, dear Professor Marian-Traian Gomoiu!**

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### LIST OF PUBLISHED PAPERS, ARTICLES AND BOOKS

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