

Istraživački interes

Šira i uža oblast istraživanja:

Prof. dr Mandić Sreten,

Biologija mora, ekologija, oblast zaštite marinskih ekosistema, biološki resursi morskog dna, ekotoksikologija, određivanje sadržaja teških metala u vodama Bokotorskog zaliva i dr.

Dr Lenhardt Mirjana,

Istraživački interes

Šira i uža oblast istraživanja:

Ekologija, ihtiologija, ekotoksikologija, faktori ugrožavanja populacija, njihova zaštita

Istraživački interes

Šira i uža oblast istraživanja:

Prof, dr Savić Ivo,

Teorijska i primjenjena ekologija, ekologija životinja, biogeografija, faunistika, oblast zaštite i unapređivanja životne sredine, ekologija čovjeka.

CURRICULUM VITAE

Family name: Dr Lenhardt
First names: Mirjana
Date of birth: 07.02.1957
Nationality: Serbian
Education:

Institution (Date from – Date to)	Degree(s) or Diploma(s) obtained
Faculty of Natural Sciences, University of Belgrade, 1975 - 1980	Molecular biology and Physiology
Center for Multidisciplinary Studies of the Belgrade University, 1981 - 1984	M.Sc. thesis «Generalized computer program for calculation of optimal fish catch on Velika Morava»
Biological Faculty, University of Belgrade - 1992 - 1997	PhD thesis «Ecological-biochemical research of pike (<i>Esox lucius</i> L.) population from Danube near Belgrade»

Language skills: Indicate competence on a scale of 1 – 5 (1 - excellent; 5 - basic)

Language	Reading	Speaking	Writing
Serbian	Mother tongue		
English	1	1	1
Czech	2	2	5
Russian	1	3	3

Membership of professional bodies:

2012. member of DSTF – Danube Sturgeon Task Force;
 2012-2017. Expert Group Leader for Fishery/Fish Biology of International Association for Danube Research;
 2012. Member of AIS3 - Association of Italian and Serbian Scientists and Scholars member

Other skills:

Scholarships and Awards

2001 – Protein and amino acid content determination in fish oocytes and eggs, University of Bergen, Norway
 1990 – Enzymes involved in xenobiotic metabolism of fishes, Laboratory for Aquatic Toxicology, Studsvik, Sweden

Research Interests: fishery, ichthyology, ecology, ecotoxicology, endangering factors of sturgeon species populations and their protection

Present position:

- Institute for Biological Research “Siniša Stanković”, Belgrade, Serbia (1985–present);
- Institute for Multidisciplinary Research, Belgrade, Serbia (2006-present)

Years within the firm: 35 years

Qualifications and skills:

- MSc and PhD thesis in fishery and ecotoxicology of fish in open waters finished on University of Belgrade, Serbia
- Excellent knowledge of Computer literacy. Microsoft Office, Internet applications, statistical packets (STATISTICA, SOLO)

General professional experience:

- 30+ years experience in fishery sector in Serbia, Member State (Sweden, Romania, Slovakia, Czech Republic), EEA (Norway) and international organizational level (ICPDR)
- profound knowledge of the requirements for fisheries information for policy decision makers and other stakeholders
- good experiences in delivery of expert services in fishery and sturgeon aquaculture sectors
- experience in EU financed projects, procedures
- more than 20 years experience in the design of projects relating to economically important freshwater fish species
- highly experienced in commercial fishery in Serbia
- 15 years experience leading a team of scientists working within the framework of national and international projects
- strong managerial and coordination skills

Specific professional experience:

- involvement in Negotiating Group 13 - Fisheries from the starting of this procedure in Serbia. Participation on meeting and seminars devoted to harmonization of legislation related to EU
- involvement in collection of data for Serbia's fishery sector and cooperation within regional fisheries management organizations (CITES, Action Plan for Sturgeons in the Danube River
- contribution to the preparation of legislation in fishery sector of the Republic of Serbia

Country	Date: from- to (month/ year)
Czech Republic	Three weeks stay in 2015
Hungary	Short term missions in 2007 and 2008
Norway	Two months stay in 2001
Romania	Short missions in 2013 - 2015
Serbia	1985-now
Slovakia	Short term missions in 2012 and 2013
Sweden	Five months stay in 1990

Professional experience:

Date from – Date to	Location	Company& reference person (name &contract details)	Position	Description
03/16	Serbia	Siniša Kotur, Deputy Chair of the Negotiating Group 13 - Fisheries, Serbia	Member of Negotiation Group 13	Participation in Negotiating Group 13 - Fisheries Preparation of the Negotiating Position, March 2016, Belgrade The current state of the negotiation process, tasks and objectives. Further steps in preparation of the Negotiating position for Chapter 13. Discussion relating to Law on the protection and sustainable use of fish stocks. Protected fish species and status of aquaculture, adequate administrative and technical structures to ensure the control of fishing activities as regards in particular control of marketing and traceability of fishery and aquaculture products. The sectors of the Serbian administration involved in the control of fishing activities including import, transport, processing and marketing
2014- 2018	Serbia	Dr Arjan Palstra Wageningen University and Research Centre, Netherlands	MC for Serbia	Swimming of fish and implications for migration and aquaculture (FITFISH), COST Action (European Cooperation in Science and Technology) FA1304. MC for Serbia The main objective of the Action is to strengthen and improve knowledge on swimming of fish and its applicability in improving the status of wild and farmed fish by bringing together research and industrial partners with policy makers. More specifically: to build capacity among the high-quality scientific research community involved in studying the swimming of fish and its implications for migration and aquaculture, to support its integration; to leverage national research investments; to address an issue of global relevance and to increase the impact of science and technology on policy makers, regulatory bodies and national decision makers.
2012- 2016	Serbia	Dr Eleanor Jennings Dundalk Institute of Technology Ireland	MC for Serbia	“Network Lake Observations in Europe (NETLAKE), COST Action (European Cooperation in Science and Technology) ES 1201”. MC for Serbia The over-arching objective of NETLAKE is to establish a network of scientists, technologists, managers and stakeholders focused on the development and application of cutting-edge sensor technology for the protection of European lakes and reservoirs. Using automatic high frequency monitoring allow high-resolution monitoring of lakes and reservoirs from in-situ platforms, with the data provided to local end-users by web-based technology. The information acquired by these systems is currently reviewed on a site-by-site basis, but an even greater potential lies in the integration of data from many sites into a European network.
2015- 2016	Serbia	Dr Cristina Sandu International Association for Danube Research Austria	Project Leader for Serbian part	Ex-situ survey to preserve sturgeon genetic diversity in the Middle and Lower Danube, financed by EU and the City of Vienna - Obtain an overview of existing ex-situ facilities for sturgeons in Middle and Lower Danube area; Acquire support of local stakeholders and fishery authorities for sturgeon conservation; Develop a roadmap for future actions in ex-situ conservation; Producing an inventory of existing facilities, brood stock and expertise; Field surveys in selected hatcheries and discussions with hatchery stakeholders; Preparation a workshop with national stakeholders; Discuss the conclusions of the field visits with the DSTF experts; Elaborate a roadmap of future actions and disseminate in a high-level event to raise the support of the decision makers; Dissemination activities for the wide public and local stakeholders.
2014- 2015	Serbia	Dr Radu Suciu Danube Delta National Institute for Research and Development Romania	Project Leader for Serbian part	Fish behaviour preparatory study at Iron Gate Hydropower dams and reservoirs. Financed by European Investment Bank . The main objective of this project is to restore fish migration on the Danube river, focusing on the main migration barrier - the Iron Gates hydropower dams between Romania and Serbia – as part of the legal requirements under the Water Framework Directive. The specific objectives are to test and adapt different telemetry techniques (radio – and acoustic) on sturgeon, in order to achieve the detection resolution required to precisely determine the preferred location of the fish pass entrances at the Iron Gate hydropower and navigation systems as well as to prepare and train sturgeon tagging and tracking teams from Bulgaria and Serbia, in order for them to become partner in the future larger telemetry study on sturgeon behaviour in relation to the Iron Gate hydropower and navigation systems.
2011- 2015	Serbia	Ministry of Education, Science and Technological Development of the Republic of Serbia	Project Leader	“Fish as bioindicators of the state of open waters in Serbia. Pr.No. 173045” Ministry of Education and Science of Republic of Serbia The research on this project will include all parameters stated in the EU Water Framework Directive WFD, as well as additional analyses of fish populations at different organizational levels that will be used in determination of negative anthropogenic impact. Observation of biological effects has become an integral component in environmental monitoring programmes, as an addition to established pollution monitoring. During the years, many biomarkers were developed, and it has been proved that they can represent an efficient system for early detection of negative effects on biological systems and assessment of biological effects of pollutants. Although biomarkers are potentially useful, they have certain limitations, which will be checked during the research. The threat status of different fish species will be assessed within the project activities, by analysing several parameters, the significance of which in assessment of status of water bodies in Serbia will be determined.

11/2015	Serbia	Republic of Serbia, Government, European Integration Office	Fisheries Expert	Participation on seminar Financial Aspects and Need for Analytical Support to the EU Accession Negotiation Process, November 2015, Belgrade The main aim was to strengthen members of negotiation groups in their analytical capacities for EU accession negotiations. Negotiation group 11, 12 and 13, Ministry of Agriculture and Environmental Protection, Serbian European Integration Office, Relevant members of the Negotiation Team of Serbia were involved in these activities. GIZ experts from Slovenia presented EU accession negotiations – Financial Package, EU accession negotiations – Fiscal Effects, Analytical Support Functions for EU Accession Negotiations and explained how to organise Analytical Support Function in Serbia.
09/2014	Serbia	Ministry of Agriculture and Environmental Protection of the Republic of Serbia	Fisheries Expert	Bilateral Screening Chapter 13, Law on the protection and sustainable use of fish stocks, Belgrade, Serbia Questions and answers included different topics: Discussion related to: adequate administrative and technical structures in Serbia to ensure the control of fishing activities; sectors of the Serbian administration involved in the control of fishing activities including import, transport, processing and marketing; In what way are the fisheries authorities cooperating with customs and sanitary authorities, registration of fishing vessels; Does Serbia intend to provide its flag to fishing vessels in the future; imports of fishery and aquaculture products; definition for illegal, unregulated and unreported fishing activities which may be committed by Serbian nationals or vessels.
2013-2015	Romania	Management Authority for the Fisheries Operational Programme	Sturgeon Expert	Evaluation of survival and distribution in the Black Sea of young sturgeons stocked experimentally in the Lower Danube, Romania. The main aim of this project is to mobilize regional efforts for a transboundary approach for the management and conservation of Danube sturgeon. Specific goals related to regulator monitoring of natural sturgeon recruitment and supportive stocking of the Danube River by artificial produced and tagged beluga sturgeon, Russian sturgeon and stellate sturgeon. Monitoring of stocked juvenile sturgeon survival in the Danube River and the Black Sea coastal water was performed by experts from different countries along the Danube River and Black Sea coast.
2012-2013	Serbia Slovakia	Slovak Academy of Science Ministry of Agriculture and Environmental Protection of the Republic of Serbia	Project Leader	Harmonization of methods for the monitoring of qualitative and quantitative composition of the fish stock of large rivers, Serbia and Slovakia. The main aim of proposed study between Serbia and Slovakia is harmonization of methods for fish sampling in the Danube River. Danube is hardly modified river impacted by dam buildings, modification of river due to navigation and flooding prevention and also by pollution (poorly treated or untreated communal and industrial waste waters). By 2015 all quality elements shall be in good status in accordance with FWD. In practical terms, this means that the species composition, the abundance and the age structure of the different fish populations shall only deviate slightly from what is regarded as natural conditions in the different water bodies. This project will develop, standardize and harmonize methods for fish sampling in large rivers which will enable better monitoring of fish populations in the Danube River.
2011	Serbia	Faculty of Agriculture University of Belgrade	Invited speaker	Participation on meeting Commercial fishery in Serbia, Faculty of Agriculture University of Belgrade, oral presentation, January 2011. Many problems with inland commercial fishery in Serbia were explained as well as different solutions how to overcome them. Two main property right regimes, public and private, were discussed with participants from Commercial fishery organization of Serbia. The other problem relates to placement of goods and valid statistics of fish catch.
2011.	Serbia	TAEIX Ministry of Agriculture, Forestry and water Management of the Republic of Serbia	Fisheries Expert	TAEIX (European Commission Technical Assistance Information Exchange Instrument, DG Enlargement) Workshop on Common Fisheries Policy, AGR44486, organised in cooperation with Ministry of Agriculture, Forestry and Water Management in Serbia, Belgrade, May 2011. Presentations relating to support beneficiary countries in understanding, transposing, implementing and applying EU policies, legislation and rules. General principles of the common fishery policy, inspection and control, structural actions, market policy and international agreements were presented.
2011	Serbia	Faculty of Agriculture University of Belgrade, Serbia	Member of Scientific Committee	Member of Scientific Committee of the V international conference "Aquaculture and Fisheries" Institute of animal sciences, Faculty of agriculture of University of Belgrade and oral presentation Professional European aquaculture is composed of family firms, SMEs and large Enterprises, each of which will have its own governance 'model', which become more visible with the increasing size and responsibilities of the enterprise. Such models will be directed towards operating within legislative conditions – such as water use and effluent control – or be adapted to best practice and/or certification guidelines, for production that is geared towards – as examples - specific quality conditions or organic production.

2010	Serbia	SEE Transnational Programme	Expert	Participation in preparing Serbian First National Communication under the UN Framework Convention on Climate Change – part relating to biodiversity - Responsible for analysis of the present status of biodiversity in Serbia as well as interlinkages between the present status of biodiversity and current and future climate changes. Estimation of vulnerability of biological biodiversity due to climatic changes and possibility for adaptation. Plan of systematic monitoring and data collection in the sector of biological biodiversity with proposal for project activities.
2006	Serbia	UNDP GEF Directorate for Environmental Protection Serbia	Expert	Participation in National Capacity self-assessment for environmental protection management, Thematic assessment of the needs for capacity building aimed to meet the requirements of the Convention on Biological Diversity Assessment of the capacities for CBD requirements realization. In order to meet all the requirements given in the CBD, as well as the requirements given in other multilateral environmental agreements (MEA), each contracting party should develop the capacities to mobilize relevant information and knowledge, to build consensus and partnership between all stakeholders and on the basis of that they should formulate effective policy, legislation, strategies and programmes. It is also necessary to develop capacities to implement such policy, legislation, strategies and programmes, with the inclusion of human, materialistic and financial resources. Finally, it is necessary to build capacities to monitor, evaluate, report and learn on the basis of the achieved in comparison to planned activities.
1985- 1990	Serbia	Serbian Ministry of Science	Team member	Project: "Protection and improvement of the environment in SR Serbia (waters), Serbian Ministry of Science" - The main aim of this project was to identify the main polluter producers, determinations of the waste water quality, screening of the present state of pollution of open waters in Serbia. These investigations also included detection of possible changes in the aquatic ecosystems that appeared under the influence of pollution. Content of toxicants in the most important components has been determined in the aquatic ecosystems as well as their accumulation in biota, mainly in fish.
1985- 1989	Serbia	European Economic Community	Team member	Project: Studies on the pollution status of the Danube River basin, measures of protection and rational exploitation of the water resources, European Economic Community - The studies on river pollution status of the Danube River Basin were realized on the Yugoslav part of the Danube during an especially significant time period (1985-1989), almost immediately before the opening of Rhine-Main-Danube network (September 1992). Investigation performed pointed out the complexity of the problems connected to contamination of such large river system as Danubian one. Fishery represented as an important field of economy in investigated part of the Danube River with the ratio of commercially important and of less appreciated fish species as 60% : 40%.
1991- 1995	Serbia	Serbian Ministry of Science	Team member	Project: "Ecological interactions analysis in different types of terrestrial and aquatic ecosystems, Serbian Ministry of Science - Complex ecological investigation in Serbia with specific parts devoted to physicochemical characteristics of water, sediments and soil, microbiological investigation of water and sediments, algal flora, zooplankton, qualitative and quantitative structure of the bottom fauna with special reference to the oligochaeta community, composition and structure of the molluscan fauna, ichthyofauna and ecological characteristics of different fish species, microelements in water, sediments and aquatic communities, pesticide accumulation in the aquatic ecosystem as well as utilization of rivers for different purpose with special attention on fisheries.
1995- 2000	Serbia	Serbian Ministry of Science	Team member	Project: "Ecological interactions analysis in different types of terrestrial and aquatic ecosystems", Serbian Ministry of Science - This project was continuation of project with the same title performed in the period 1991 - 1995, and included also introduction of new methods in investigation and establishing of data base with collected material in previous work.
2001- 2002	Serbia, Norway	Norwegian Research Council	Project Leader for Serbian part	Project: "Endangered Species: Oocyte maturation of the beluga sturgeon (<i>Huso huso</i>) – Evolutionary significance of egg yolk proteins" - Investigation included analysis of post-vitellogenic oocytes of beluga (<i>Huso huso</i> Linnaeus, 1758), Russian sturgeon (<i>Acipenser gueldenstaedtii</i> Brandt, 1883) and sterlet (<i>Acipenser ruthenus</i> Linnaeus, 1758) sampled downstream of the "IronGate II" dam in Serbian part of the Danube River. Sturgeons spawning migrations from the Black Sea blocked on 863 river kilometer of the Danube River by dam building. Together with other negative impact (over-fishery, pollution) these induced decrease in anadromous sturgeon populations. Results of this project contribute to better understanding of final oocyte maturation in sturgeons.
2001- 2005	Serbia	Serbian Ministry of Science	Team member	Project: Development of high-productive aquaculture and its application in protection and improvement of fish resources - Subject of research were endangered fish species of particular ecological and economical value, early stages or their development and their behaviour in different experimental and commercial aquaculture systems. Research concerns primarily sturgeons (Acipenseridae) in the Djerdap dam area, as well as eels and other euryhaline species from estuarine regions (Anguillidae, Mugilidae, Sparidae and Moronidae). The main research goal is to protect the Danubian beluga sturgeon and the euryhaline species from estuarine regions by way of selected strategies of aquaculture as well as to map natural habitats of the fry of estuarine species suitable for commercial aquaculture. Additional goals were to study the physiology of the early

				development stages of these fish species in order to enable their successful rearing in captivity as well as to establish adequate techniques of commercial aquaculture, applicable to the investigated fish species as aquaculture candidates.
2002-2003	Serbia	Serbian Academy of Sciences Bulgarian Academy of Sciences	Team member	Fish-helminth system as bioindicator for anthropogenic pollution of aquatic ecosystem in the River Danube - Systematic parasitofauna investigations have been carried out on 54 freshwater fish species in waters of the Danube River Basin in Serbia, also in hill-mountainous watercourses, lakes and salmonid fishpond of Sjenicko-Pesterska plateau (south-west region of Serbia), Homolje area (east Serbia), and in Vlasina lake (south-east Serbia). This data review pointed that it is necessary to continue the investigation on fish parasites in Serbia. The data on freshwater fish parasites are important for evaluation of general influence on the community structure.
2004,	Serbia, Croatia, Norway	Norwegian Ministry of Foreign Affairs	Project Leader for Serbian part	Management of freshwater fisheries on bordering rivers – pilot study with a holistic regional approach - One of the aims of the project is to assess the status of the fish populations at different sites in the bordering rivers Sava and Danube, and propose actions where necessary. Work in this project performed in accordance with the principles and regulations for water management given in the EC Water Framework Directive (WFD) and the corresponding CIS-guidance documents (Common Implementation Strategy). The WFD also requires a co-operation between all the sectors with water management responsibility, and that those who use and impact the water also should take part in covering the cost of water management (polluter pay principle). The status of the water body should be evaluated according to the healthiness of the water biology, including fish.
2006–2010	Serbia	Serbian Ministry of Science	Project Leader	Studies on diversity, protection and sustainable use of the fish fauna as key components in developing the strategy for integral management of water resources in Serbia, Serbian Ministry of Science, Project Leader - The subject of research comprises the assessment of fish diversity in Serbia, its spatial, temporal and environmental variability, its threats and its conservation. The aim is to analyze the state of the fish fauna in Serbia and to estimate rates of sustainable use of fish populations as natural resources. The assessment of composition, structure and condition of the fish fauna could serve as a basis for a monitoring programme of aquatic ecosystems in Serbia, which represents a necessary prerequisite for successful realization of the measures predicted by the Resolution on Biodiversity Conservation Policy in Serbia. Furthermore, the estimation of the rational exploitation rate will enable the long-term sustainable use of fish resources. Considering the current multi-purpose use of aquatic ecosystems, the expected results could serve as an information basis for planning and development strategy of integral management of aquatic resources in Serbia, in keeping with the proclaimed principles of the EU Water Framework Directive.
2006–2008	Serbia	Serbian Ministry of Science	Project Leader	Standardization and harmonization of techniques for sturgeon fish population studies development and artificial reproduction, Serbian Ministry of Science, Project Leader Sustainable sturgeon species conservation requires the preservation of the complete life cycle in the natural habitat. Identify, protect and restore the life cycle of sturgeon species in the Danube River and major tributaries, including all life stages, their supporting habitats and migration routes are very important as well as to standardize the respective methodologies across the Danube River Basin. Additional investigation was devoted to development of feasibility study for fish passage construction on Iron Gates dams and to artificial spawning and sturgeon aquaculture.
2007-2008,	Serbia, Hungary	European Agency for Reconstruction	Project Leader	Sustainable use of sterlet and development of sterlet aquaculture in Serbia and Hungary - In this project joint system was developed to protect and manage common natural resources, sterlet (<i>Acipenser ruthenus</i>) populations in Serbia and Hungary. This was done by common work of two countries and collaboration between them, which has resulted in preparation of Handbook for sterlet aquaculture and Activity plan for sustainable use and protection of sterlet in the Danube River Basin. Both publications are a good basis for decision makers in Serbia and Hungary to implement sustainable use of sterlet populations. Additional work related to sterlet age structure, sublethal effects of water and sediment pollution on sterlet populations.

Other relevant information: dr Mirjana Lenhardt has published more than 100 papers in International Citation Index journals and 9 chapters in books. She was in commission of 2 MSc and 11 PhD theses. She is ad hoc reviewer for the journals: Science of the Total Environment, Chemosphere, Polar Research, Food Control, Turkish Journal of Zoology, Aquaculture International, Slovenian Veterinary Research, Saudi Journal of Biological Sciences, Folia Zoologica, Biologia. She was involved in work of Scientific and Organizing Committee for international conferences.

List of publications

In scientific journals

Jarić, I., Bronzi, P., Cvijanović, G., **Lenhardt, M.**, Smederevac-Lalić, M., Gessner, J. (2018). Paddlefish (*Polyodon spathula*) in Europe: An aquaculture species and a potential invader. Journal of Applied Ichthyology in press.

Seelen, L.M.S. Flaim, G., Keuskamp, J., Teurlinck, S., Font, R.A., Tolunay, D., Fránková, M., Šumberová, K., Temponeras, M., **Lenhardt, M.**, Jennings, E., de Senerpont Domis, L.N. 2019. An affordable and reliable assessment of aquatic decomposition: Tailoring the Tea Bag Index to surface waters. Water Research 151 (15), 31-43.

Djikanović V., Skorić S., Spasić S., Naunović Z., **Lenhardt M.** 2018. Ecological risk assessment for different macrophytes and fish species in reservoirs using biota-sediment accumulation factors as a useful tool. Environmental Pollution 241, 1167–1174.

Raskovic, B., Poleksic, V., Skoric, S., Jovicic, K., Spasic, S., Hegedis, A., Vasic, N., **Lenhardt, M.** 2018. Effects of mine tailing and mixed contamination on metals, trace elements accumulation and histopathology of the chub (*Squalius cephalus*) tissues: Evidence from three differently contaminated sites in Serbia. Ecotoxicology and Environmental Safety 153, 238-247.

Kolarević, S., Sunjog, K., Kračun-Kolarević, M., Kostić-Vuković J., Jovanović, J., Simonović, P., Simić, V., Piria, M., Gačić, Z., **Lenhardt, M.**, Paunović, M., Vuković-Gačić, B. (2018). The Genetic Variability (RAPD) and Genotoxicity In Vivo (Alkaline and Fpg-Modified Comet Assay) in Chub (*Squalius cephalus*): The Sava River Case Study. *Int J Environ Res* 12(5): 703-712 .

Smederevac-Lalic, M., Kalauzi, A., Regner, S., Navodaru, I., Visnjic-Jeftic, Z., Gacic, Z., **Lenhardt, M.** (2018). Analysis and forecast of Pontic shad (*Alosa immaculata*) catch in the Danube River. Iranian Journal of Fisheries Sciences. 17(3), pp: 443-457.

Lenhardt, M., Pekarik, L., Skoric, S., Smederevac-Lalic, M., Hegedis, A., Jacimovic, M., Djikanovic, V. 2017. Influence of the twilight period and different sampling methods on catch of gobiids (Gobiidae) at four locations in the inshore parts of the Danube River. Acta Zoologica Bulgarica 9, 225-229.

Smederevac-Lalic, M., Kalauzi, A., Regner, S., **Lenhardt, M.**, Naunovic, Z., Hegedis, A., 2017. Prediction of fish catch in the Danube River based on long-term variability in environmental parameters and catch statistics. Science of the Total Environment 609, 664-671.

Kostic, J., Kolarevic, S., Kracun-Kolarevic, M., Aborgiba, M., Gacic, Z., Paunovic, M., Visnjic-Jeftic, Z., Raskovic, B., Poleksic, V., **Lenhardt, M.**, Vukovic-Gacic, B. 2017. The impact of multiple stressors on the biomarkers response in gills and liver of freshwater breams during different seasons. Science of the Total Environment 601, 1670-1681.

Cvijanovic, G., Adnadjevic, T., Jaric, I., **Lenhardt, M.**, Maric, S. 2017. Genetic analysis of sterlet (*Acipenser ruthenus* L.) populations in the Middle and Lower Danube sections. North-Western Journal of Zoology, (2017), vol. 13 br. 1, str. 34-43

Sunjog, K., Kolarević, S., Kračun-Kolarević, M., Visnjic-Jeftic, Z., Skoric, S., Gačić, Z., **Lenhardt, M.**, Vasic, N., Vuković-Gačić, B. 2016. Assessment of status of three water bodies in Serbia based on tissue metal and metalloid concentration (ICP-OES) and genotoxicity (comet assay). Environmental Pollution 213, 600-607.

Jovicic, K., Jankovic, S., Visnjic-Jeftic, Z., Skoric, S., Djikanovic, V., **Lenhardt, M.**, Hegedis, A., Krpo-Cetkovic, J., Jaric, I. 2016. Mapping differential elemental accumulation in fish tissues: importance of fish tissue sampling standardization. Archives of Biological Sciences 68 (2), 303-309.

Aborgiba, M., Kostic, J., Kolarevic, S., Kracun-Kolarevic, M., Elbahi, S., Knezevic-Vukcevic, J., **Lenhardt, M.**, Paunovic, M., Gacic, Z., Vukovic-Gacic, B. 2016. Flooding modifies the genotoxic effects of pollution on a worm, a mussel and two fish species from the Sava River. Science of the Total Environment 540, 358-367.

Morina, A., Morina, F., Djikanović, V., Spasić, S., Krpo-Ćetković, J., **Lenhardt, M.** 2016. Seasonal variation in element concentrations in surface sediments of three rivers with different pollution input in Serbia. Journal of Soils and Sediments 16 (1), 255-265.

Morina, A., Morina, F., Djikanović, V., Spasić, S., Krpo-Četković, J., Kostić, B., **Lenhardt, M.** 2016. Common barbel (*Barbus barbus*) as a bioindicator of surface river sediment pollution with Cu and Zn in three rivers of the Danube River Basin in Serbia. *Environmental Science and Pollution Research* 23 (7), 6723-6734.

Jarić I., Smederevac-Lalić M., Jovičić K., Jaćimović M., Cvijanović G., **Lenhardt M.**, Kalauzi A. (2016). Indicators of unsustainable fishery in the Middle Danube. *Ecology of freshwater fish* 25 (1), 86-98.

Banaduc, D., Rey, S., Trickova, T., **Lenhardt, M.**, Curtean-Banaduc, A. 2016. The Lower Danube River–Danube Delta–North West Black Sea: A pivotal area of major interest for the past, present and future of its fish fauna — A short review. *Science of the Total Environment* 545-546, 137-151.

Rašković, B., Poleksić, V., Višnjić -Jeftić, Ž., Skorić, S., Gačić, Z., Djikanović, V., Jarić, I., **Lenhardt, M.** 2015. Use of Histopathology and Elemental Accumulation in Different Organs of Two Benthophagous Fish Species as Indicators of River Pollution. *Environmental Toxicology* 30 (10), 1153-1161.

Jovičić K., Nikolić M.D., Višnjić – Jeftić Ž., Đikanović V., Skorić S., Stefanović M.S., **Lenhardt M.**, Hegediš A., Krpo – Četković J., Jarić I. (2015). Mapping differential elemental accumulation in fish tissues: assessment of metal and trace element concentrations in wels catfish (*Silurus glanis*) from the Danube River by ICP-MS. *Environmental Science and Pollution Research*, 22.5, 3820-3827.

Jarić, I., Jaćimović, M., Cvijanović, G., Knežević-Jarić, J., **Lenhardt, M.** 2015. Demographic flexibility influences colonization success: profiling invasive fish species in the Danube River by the use of population models. *Biological Invasions* 17, 219-229.

Subotić S., Višnjić-Jeftić Ž., Spasić S., Hegediš A., Krpo-Četković J., **Lenhardt, M.** 2015. Concentrations of 18 Elements in Muscle, Liver, Gills, and Gonads of Sichel (*Pelecus cultratus*), Ruffe (*Gymnocephalus cernua*), and European Perch (*Perca fluviatilis*) in the Danube River near Belgrade (Serbia). *Water, Air, & Soil Pollution* 226 (9), 1-11.

Jarić, I., Gessner, J., **Lenhardt, M.** 2015. A life-table metamodel to support the management of data deficient species, exemplified in sturgeons and shads. *Environmental Biology of Fishes* 98 (12), 2337-2352.

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ДР ИВО Р. САВИЋ



редовни професор

за ужу научну област: Екологија, биогеографија и заштита животне средине

Адреса: Господар Јевремова 13, 11000 Београд

Тел: (011) 2622 271

E-mail: ir_savic@yahoo.com

Датум, место и држава рођења: 03.03.1934, Ниш, Југославија

ОБРАЗОВАЊЕ И КВАЛИФИКАЦИЈЕ

Гимназија у Књажевцу и Београду (1952).

Дипломирао на Биолошкој групи Природно-математичког факултета (ПМФ) Универзитета у Београду (1957).

Докторирао на истом факултету (1965) са темом: "Екологија врсте *Spalax leucodon* Nordmann 1840 (Rodentia) у Југославији".

Уврштен у базу података о експертима за животну средину Централне и Источне Европе - CEDAR (1992) са седиштем у Бечу, Аустрија; именован за експерта за области: заштита природе, биодиверзитет, екологија животиња и екологија човека Регионалног центра за животну средину за Централну и Источну Европу (REC) са седиштем у Будимпешти, одн. Сент Андреји у Мађарској (1993, 1996, 1999), као и за експерта за област: екологија и заштита животне средине Савезног министарства за развој, науку и животну средину (1997). - Објавио укупно 9 научних и 6 стручних монографија, 221 научни рад у националним и међународним научним часописима, саопштио 158 радова на научним скуповима у земљи и иностранству, објавио 39 стручних радова у националним и међународним публикацијама и више од 100 издања разних средњошколских уџбеника, универзитетских и научних приручника.

КРЕТАЊЕ У СЛУЖБИ

У Биолошком институту НРС (потоњем Институту за биолошка истраживања "Синиша Станковић" УБ) у Београду: асистент (1958), научни сарадник (1966), виши научни сарадник (1970), председник Савета са представницима друштвене заједнице (1974-1976), члан Колегијално-пословодног

органа (1980-1981). На Биолошком факултету УБ: ванредни професор (1981), редовни професор (1986), шеф Катедре за екологију и географију животиња (1989-2000), председник Савета са представницима друштвене заједнице и студената (1988-1989); држао наставу на предметима: Екологија и географија животиња, Екологија човека, Човек и животна средина; руководио постдипломском наставом на смеровима: Екологија животиња и Екологија заштите животне средине, до одласка у пензију (2000). Држао редовну наставу и на ПМФ Универзитета у Крагујевцу (Екологија и географија животиња) и на ПМФ Универзитета у Новом Саду (Екологија животиња са зоогеографијом), као и постдипломску наставу (Општа екологија) у Центру за мултидисциплинарне студије УБ. Именован за председника Програмског савета Природњачког музеја у Београду (1985); биран за председника Одбора за заштиту животне средине Републичке заједнице науке Србије (1986-1990), председника Одбора за биологију и генетику Министарства за науку и технологију РС (1996-1998). Био је председник Српског биолошког друштва (1974-1976), председник Друштва еколога Србије (1983-1985), председник Југословенске асоцијације за заштиту животне средине (1996-1998).

ОБЛАСТ ИСТРАЖИВАЊА

Теоријска и примењена екологија; екологија животиња; екологија човека; биогеографија; фаунистика; област заштите и унапређивања животне средине.

НАГРАДЕ И ПРИЗНАЊА

Две дипломе Српског биолошког друштва (1972. и 1997); Октобарска награда града Београда за достигнућа у области биолошких наука (1985); Орден рада са златним венцем СФРЈ (1987); Повеља Завода ДДД у Београду (1994); Диплома *Custos honoris causa Musei Historiae Naturalis* у Београду (1995); Повеља Српског биолошког друштва (2007); *Platinum Diploma of the Archives Biological Sciences* (2013); и др.

МАТЕРИЈАЛИ

Ко је ко у Србији '95: биографски лексикон: интелектуална, уметничка, политичка, финансијска, војна, спортска елита Србије - Београд: Biblioфон, 1995; Српско биолошко друштво: Пола века (1947-1997)(Уредник М. Тодоровић). Српско биолошко друштво, Београд, 1997.

ЛИНКОВИ

Иво Р. Савић

ORCID

<https://orcid.org/0000-0001-9317-6547>

Scopus

<https://www.scopus.com/authid/detail.uri?authorId=7006926022>

Google Scholar

<https://scholar.google.com/citations?user=ctUNQsgAAAAJ&h>

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МАТЕРИЈАЛИ

Иво Р. Савић Научни радови

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Dr Sreten Mandić, naučni savjetnik u penziji

Biografija

Dr Sreten Mandić rođen je 18.02. 1947 godine u Sutjesci kod Zrenjanjina, gdje je završio osnovnu školu. Gimnaziju je završio u Gacku školske 1964/65, a Prirodno-matematički fakultet - Odsjek za biologiju u Sarajevu 1970 godine sa prosječnom ocjenom 8,90.

Postdiplomske studije završio je na Centru za postdiplomski studij Sveučilišta u Zagrebu 1978 godine.

Naziv magistarskog rada: Kvalitativna i kvantitativna analiza glavonožaca (Cephalopoda) u biocenoza litoralnog područja Crnogorskog primorja”.

Doktorsku disertaciju pod nazivom “Istraživanja taksonomije, bionomije i ekologije Cephalopoda u Južnom Jadranu ” odbranio je na Prirodoslovno-matematičkom fakultetu Sveučilišta u Zagrebu 1983 godine.

Promovisan je za doktora prirodnih nauka iz područja biologije u Zagrebu 21.05. 1984 godine.

Odmah nakon diplomiranja (mart 1970 godine) zasniva radni odnos na određeno vrijeme, kao pripravnik-stažer u Zavodu za biologiju mora u Kotoru. Poslije dvogodišnjeg stažiranja u Zavodu i rada u više laboratorija, izabran je za asistenta za zoobentos i školjkarstvo, na osnovu potreba Zavoda, pozitivno ocijenjenog stažiranja i lične želje. Dakle, od prvog radnog dana pa sve do danas Dr Sreten Mandić radi u Zavodu na radnim mjestima: Stažera-pripravnika, asistenta, naučnog saradnika i višeg naučnog saradnika. Sada je rukovodilac Laboratorije za opštu biologiju mora i marikulturu.

Podaci o specijalizacijama

Uz rad na projektima Zavoda, domaćim i međunarodnim, kao saradnik i rukovodilac Dr Sreten Mandić je obavio veći broj specijalizacija u zemlji i inostranstvu.

U prethodnoj Jugoslaviji to su bili istraživački Centri u Splitu, Rovinju i Zagrebu, a u inostranstvu:

- SR Nemačka, Biološki institut u Hamburgu i Helgolandu, 2 x 45 dana
Institut za fiziku Univerziteta u Kiel-u, 20 dana
Institut za fiziološku hemiju Medicinskog fakulteta Univerziteta u Mainz-u, 30 dana
- Francuska, Biološki institut Univerziteta u Montpellier-u, 30 dana
- SSSR, Moskva i Lenjingrad u srodnim institucijama, 15 dana
- Japan, U institucijama i laboratorijama Univerziteta u Tokiju, 60 dana
- Italija, Biološki institut u Tarantu (studijski boravak) 10 dana
- Galicija, Španija, Institut za okeanografiju -10 dana. Tema: Marikultura

Podaci o prethodnim izborima u naučna zvanja

Dr Sreten Mandić izabran je u zvanje NAUČNOG SARADNIKA Rešenjem br. 1961 od 25.11. 1983, SIZ-a za naučne djelatnosti, u zvanje VIŠEG NAUČNOG SARADNIKA, rješenjem iste Zajednice br. 1085 od 27.04.1989 godine, i u naučnog savjetnika i redovnog profesora Riješenjem br. 01-284 Univerziteta Crne Gore od 18.04 1996.

Nastavno-pedagoška aktivnost

Tokom rada u Zavodu Dr Sreten Mandić održao je niz predavanja, terenskih i laboratorijskih vježbi za studente biologije sa Univerziteta: Sarajeva, Beograda, Novog Sada, Tuzle, Kragujevca, Prištine, Skoplja i Podgorice.

U više navrata održao je predavanja za nastavnike i profesore biologije tokom zimskih seminara iz područja svojih istraživanja savremenih bioloških saznanja.

Takođe je bio, a i sada je ,konsultant i mentor za određivanje i izradu većeg broja diplomskih radova, magistarskih teza i doktorskih disertacija.

Učestvovao je u organizaciji i izvođenju većeg broja "ljetnjih škola" domaćih i međunarodnih, sa predavanjima u plenarnom i tematskom dijelu.

U pokretu "Nauka mladima", sa svojim ekipama, kao mentor, osvajao je prva mjesta na nivou SFRJ.

Od školske 1994/95 godine angažovan je na Prirodno-matematičkom fakultetu-Odsjek za biologiju za predmet "BIOLOGIJA MORA".

Biološki fakultet Univerziteta u Beogradu, izabran u zvanje vanrednog profesora za predmet Marinska ekologija od 1998 godine.

NAUČNO-ISTRAŽIVAČKI RAD

Magistarska teza:

- Mandić, S. (1978): Kvalitativna i kvantitativna analiza glavonožaca u biocenozama litoralnog područja Crnogorskog primorja. Zagreb.

Doktorska teza:

- Mandić, S. (1983): Istraživanja taksonomije, bionomije glavonožaca (Cephalopoda) u Južnom Jadranu. Zagreb.

Naučni radovi:

1. Mandić, S. i Stjepčević, J. (1972): Sezonska distribucija i sastav fitoplanktona u priobalnim vodama Bokotorskog zaliva u jednogodišnjem ciklusu. Poljopživreda i šumarstvo, XVIII, 3-4, 57-75.
2. Mandić, S. (1973): Kvalitativno kvantitativni sastav i distribucija Cephalopoda na profilu ušća Bojane. Studia Marina, 6, 29-44.
3. Mandić, S. (1973): *Rossia macrosoma* (Delle Chiaje) novi rod i vrsta za Jadransko more. Studia Marina, 6, 45-54.
4. Mandić, S. and Stjepčević, J. (1977): First Report on Three Genera of Cephalopoda new for the Adriatic Sea. Rapp.Comm. int. Mer. Medit., 24, 5
5. Stjepčević, J; Mandić, S; Dragović, R. (1977): Mogućnost industrijskog uzgoja jestivih školjkaša u Bokotorskom zalivu i uvođenje novih vrsta u proces uzgoja. Ichthyologia, 9, 1, 107-120.
6. Mandić, S. i Stjepčević, J. (1978): Sastav i distribucija Cephalopoda u biocenozama litoralnog područja Crnogorskog primorja. Biosistematika, 4, 1, 167-175.
7. Stjepčević, J. i Mandić, S. (1978): Nalazišta *Mitra zonata* Maryat u južnom Jadranu. Biosistematika. 4, 2, 319-326.
8. Stjepčević, J; Stjepčević, B; Mandić, S. (1978): Novi predstavnici parazitne faune dagnji (*Mytillus galloprovincialis* LAMK) i kamenice (*Ostrea edulis* L.) u eksperimentalnim gajilištima Bokotorskog zaliva. CANU, 2, 357-368.
9. Mandić, S. Stjepčević, J. (1979): Distribucija i zastupljenost roda *Sepia* u Južnom Jadranu.
10. Mandić, S. i Stjepčević, J. (1979): Sezonska dinamika faune Cephalopoda u litoralnom području Crnogorskog primorja. Zbornik radova II Kongresa ekologe Jugoslavije, Zadar, 1565-1575. 11.
11. Stjepčević, J; Mandić, S; Dragović, R. (1979): Rezultati uzgoja japanske kamenice (*Crassostrea gigas* TH) u uslovima Bokotorskog zaliva. Zbornik radova II Kongresa ekologe Jugoslavije, Zadar, 1963-1976.
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14. Mandić, S. et Stjepčević, J. (1981): Rezultati eksperimentalnog uzgoja obične pljosnate kamenice (*Ostrea edulis* L.) i dagnje (*Mytilus galloprovincialis* LAMC) u Malostonskom zalivu. JAZU - Malostonski zaljev-prirodna podloga i drugtveno valoriziranje, Dubrovnik-Zagreb, 210-235
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18. Mandić, S. i Stjepčević, B. (1983): Ekonomski važne vrste Cephalopoda u južnom Jadranu. Studia Marina, 13/14, 215-223.
19. Mandić, S. (1984): Cephalopoda južnog Jadrana. Studia Marina, 15/16, 3-77.
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21. Mandić, S. i Stjepčević, J. (1984): Ekologija Cephalopoda (Glavonožaca) južnojadranskoj kotlini. Zbornik radova III. kongresa Jugoslavije, Sarajevo, knjiga I, god.II, serija B, 37-41.
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Učešće na kongresima, simpozijumima i savjetovanjima

1. Na III internacionalnom simpozijumu Jugoslovenskog društva (JID)u Kotoru 1970.
2. Na III simpozijumu Jugoslavenskih okeanografa u Splitu 1971.
3. Na I kongresu ekologa Jugoslavije u Beogradu 1973. sa referatom "*Mytilicola intestinalis* STEUER, *Polydora hoplura* CLAPAREDE *Mytil/hydra polimanti* CERRUTI paraziti dagnji kamenica u eksperimentalnim gajilistima Bokokotorskog zaliva".
4. Na XXV Congres-Assemblee Pleniere Commission internationale pour l'exploration scientifique de la Mer Mediterranee u Splitu 1976. sa referatom "First Report on Three Genera of Cephalopoda new for the Adriatic Sea".
5. Na III simpozijumu biosistematičara Jugoslavije u Novom Sadu 1977 sa referatima:
 - Sastav i distribucija Cephalopoda u biocenozama litoralnog područja Crnogorskog primorja.
 - Nalazišta i rasprostranjenje *Mitra zonata* MARRYAT na području Južnog Jadrana".
6. Na simpozijumu o akvakulturi u Zadru 1977. sa referatom "Mogućnost industrijskog uzgoja jestivih školjkaša u Bokokotorskom zalivu i uvođenje novih vrsta u procesu uzgoja".
7. Na II Kongresu ekologa Jugoslavije u Zadru -1979 sa referatima:
 - Sezonska dinamika faune Cephalopoda u litoralnom području Crnogorskog primorja;
 - Distribucija i zastupljenost roda *Sepia* u jučnom Jadranu;
 - Rezultati uzgoja japanske kamenice (*Crassostrea gigas* TH) u uslovima Bokokotorskog zaliva.
8. Na II Konferenciji o zaštiti Jadrana na Hvaru 1979 sa referatom "Zagađenost priobalnog područja Crnogorskog primorja kao posljedica urbanog i industrijskog razvoja i mjere za njegovu zaštitu.
9. Na IV simpozilumu jugoslovenskih oceanografa u Splitu 1980. sa referatom "Prilog poznavanju stanja osnovnih abiotskih i biotskih faktora Bokokotorskog zaliva sa aspekta proizvodnje jestivih školjkaša".
10. Na simpozijumu "Aktuelni problemi ihtiologije i ribarstva" 1980. sa referatom: Procjena kvaliteta ekonomski važnih vrsta Cephalopoda u južnom Jadranu.

11. Na IV simpozijumu biosistematičara Jugoslavije 1980. sa referatima:

- Sistematski pregled Mollusca Kotorskog i Risanskog zaliva; ·
- Pojava migracije kod nekih vrsta Cephalopoda u južnom Jadranu.

12. Na savjetovanju JAZU-Zagreb 1981. u Dubrovniku Malostonski zaljev prirodna podloga i društveno valoriziranje, sa referatom "Rezultati eksperimentalnog uzgoja obične pljosnate kamenice (*Ostrea edulis* L.) i dagnje (*Mytilus galloprovincialis* LAMC) u Malostonskom zalivu.

13. Na Congres-Assemblee Pleniére Commission internationale pour l'exploration scientifique de la Mer Méditerranée 1981. sa referatom: Mouvements migratoires de quelques espèces de Cephalopodes économiquement importantes dans l'Adriatique méridionale.

14. Na VI kongresu biologa Jugoslavije u Novom Sadu 1982. sa referatima:

- · Kvalitativno-kvantitativna proučavanja polichaeta unutrašnjeg dijela Bokotorskog zaliva" ·
- Kondicioni indeks jestive školjke *Crassostrea gigas* TH u eksperimentalnim gajilištima Bokotorskog zaliva.

15. Na naučnom skupu "Crnogorsko primorje, mogućnost eksploatacije i zaštita" 1982. povodom 20 godina rada Zavoda za biologiju mora Kotor sa referatima:

- · Ispitivanje biološke aktivnosti ekstrakata morskih organizama južnog jadrana
- Ekonomski važne vrste Cephalopoda u Južnom Jadranu.

16. Na VIII savjetovanju o dijagnostici, profilaksi i terapiji u savremenoj stočarskoj proizvodnji u Primoštenu 1983. sa referatima:

- Infestacija *Myxobolus* (*Myxosporidia*) *Leuciscus* sp. s naročitim osvrtom na posljedične patijske promjene u organima.
- Odstupanje krvnih parametara od normalnih vrijednosti mikromorfološke patijske promjene na organima *Leuciscus cephalus*

17. Na redovnoj konferenciji Savjeta za zaštitu Čovjekove okoline u SRCG, Risan 1984. sa referatom: Putevi, stanje i posljedice zagađenja Bokotorskog zaliva, uz prikaz aktivnosti na istoj problematici.

18. Na III Konferenciji o zaštiti Jadrana u Budvi 1984. sa referatima: ·

- Mogućnost korišćenja prirodnih prostora Ulcinjskog regiona za intenzivnu i poluintenzivnu marikulturu.
- Predlozi za zaštitu i korišćenje Bokotorskog zaliva.

19. Na III Kongresu ekologa Jugoslavije u Sarajevu 1984 sa referatima:

- Polimorfizam kod vrste *Aporrhais pespele'ani*(L.) u Bokotorskom zalivu.
- Ekologija Cephalopoda (*Glavonožaca*) u južnojadranskoj kotlini

20. Na II konferenciji o zaštiti Jadrana u Budvi 1984. sa referatom: Otpadne vode kao posljedica urbanizacije, s posebnim osvrtom na deterdžente i efekti tog zagađenja na području Bokokotorskog zaliva.

21. Na I kongresu biosistematičara Jugoslavije 1985. na Popovoj Šapci sa referatima:

- · Prilog proučavanja populacije Anthozoa unutrašnjeg dijela Bokokotorskog zaliva.
- · Rijetke vrste glavonožaca u Jadranu.
- Taksonomski status rodova u familiji cipola (Pisces, Mugilidae) u svetlu novih morfoanatomskih, fizioloških i parazitolaških istraživanja.

22. Na VII Kongresu biologa Jugoslavije u Budvi 1986. sa referatima:

- Nalazišta mlađi cipola (Mugilidae) u priobalnom području Crnogorskog primorja.
- Uticaj abiotskih faktora na prirast cipola (Mugilidae) u uslovima kaptiviteta.

23. Na III Kongresu biologa Hrvatske na Malom Lošinju 1987. sa referatima:

- Efekti hloriranih ugljovodonika na bioelektričnu aktivnost nervnih ćelija.
- Echinoidea (Echinodermata) u Bokokotorskom zalivu.

24. Na Naučnom skupu CANU "Ekološke aktuelnosti Crne Gore" u Titogradu 1989. sa referatom: Zaštita lokaliteta za razvoj marikulture u Crnogorskom primorju.

25. Na IV Konferenciji o zaštiti Jadrana u Neumu 1989. sa referatom: Ulcinjska regija - područje za poluintenzivnu akvakulturu.

26. Na Međunarodnom simpozijumu u Splitu 1990. "Ekološki problemi Jadranskog mora" sa referatom: Ekološke specifičnosti priobalne zone Bokokotorskog zaliva.

27. Na Naučnom skupu u Sarajevu 1990. "Populacija vrsta i biocenoza" sa referatom: Bioekološke karakteristike Bivalvia, pogodnih za uzgoj.

28. Na Congres-Assemblée Plénière Commission internationale pour l'exploration scientifique de la Mer Méditerranée 1990. u Izmiru sa referatom: Immigrant fish species in Skadar and Sasko lakes and some their specificities.

29. Na XXXII Congres-Assemblée Plénière Commission internationale pour l'exploration scientifique de la Mer Méditerranée 1990. sa referatom: The rare species of the Cephalopods in the Adriatic.

30. Na Malti 1992 sa referatom "Environment and economy ecorestructuring and regional development on the example of the Montenegrin coast".

31. Na simpozijumu Prirodni kapaciteti i odnos prema kulturnom okruženju kao parametri razvoja nautičkog turizma" u Kotoru 1992. sa referatom: Prirodni kapaciteti Bokokotorskog zaliva i nautički turizam.
32. Na savjetovanju "Ekološka država Crna Gora" u Podgorici 1993 sa referatima:
 - Ekološko prestrukturiranje i regionalni razvoj na primjeru Bokokotorskog zaliva".
 - Bioekološki potencijali piobalnog mora Crne Gore..
33. Na I Jug. savjetovanju "Aktuelni problemi ribarstva Jugoslavije" 1994 u Zrenjaninu-Ečka sa referatom: Stanje i perspektive razvoja ribarstva Crne Gore..
34. Na Ljetnoj školi "Kotor'94" 1994. sa referatom: Preliminarni podaci za integralni katastar koncentrisanih zagadivača Bokokotorskog zaliva.
35. Na Međunarodnom savjetovanju "Jugoma'94" 1994. u Novom Sadu sa referatom: Osvrt na zagađujuće efekte zagađujućih materija na živi svijet u moru, s posebnim osvrtom na mineralna ulja, naftu i njene deživate.
36. Na V naučnom skupu o sistemu naučnih informacija "Informatička podrška ekološkoj pživredi i zaštiti životne redine" 1995. u Kotoru sa referatom: informacioni sistem i katastar zagadivača Boke Kotorske".
37. Na Ljetnoj školi "Biološka i hemijska istraživanja biljaka i životinja na području Crne Gore" u Kotoru 1995. sa referatom: Prirodne karakteristike i živi svijet Bokokotorskog zaliva.
38. Na savjetovanju "Zaštita južnog Jadrana od zagađenja naftom i naftnim derivatima" 1995. u Kotoru sa referatom: Prikaz osnovnih hidrodinamičkih karakteristika Bokokotorskog zaliva sa ciljem predviđanja posledica od mogućih zagađenja naftom i predlozi za zaštitu.
39. Na naučnom skupu "Istraživanja i zaštita južnog Jadrana" u Kotoru 1995. sa referatima:
 - Biološki resursi morskog dna.
 - Bioekološke karakteristike Bokokotorskog zaliva.
 - Stanje ihtiofaune na ekonomskim postajama južnog Jadrana.
40. Na II Jug. savjetovanju "Ribarstvo Jugoslavije" 1995. u Kotoru sa referatima:
 - Institucionalna osnova i predlozi organizacije morskog ribarstva Jugoslavije.
 - Mogućnost uzgoja dagnji *Mytilus galloprovincialis* LAMCK. u uslovima Kotorskog zaliva.
41. I, II i III Internacionalni Simpozijum ekologa Crne Gore.

Rukovodjenje projektima:

1. Istraživanje taksonomije, ekologije (Cephalopoda) u južnom Jadranu. 1984.
2. Mogućnosti eksploatacije marikulture ribljih vrsta iz porodice Mugilidae (cipoli) 1987.
3. Bokokotorski zaliv i njegov živi svijet. 1991.
4. Istraživanje, iskorišćavanje i zaštita Jadranskog mora do 2000-. god. (Savezni projekat - Koordinator za Crnu Goru).
5. Biomedicinski efekti aplikacije peloida i njihova fizičko-hemijska standardizacija (Savezni projekat) koordinator za biološka i hemijska istraživanja.
6. Proizvodnja mladi (nasada) školjaka, osnov razvoja marikulture (Savezni projekat KPR-231-193).
7. Istraživanje, korišćenje i zaštita litoralnog područja južnog Jadrana. Savezni projekat HDI-058/94.
8. Bioekološki potencijali priobalnog mora Crne Gore, a ciljem razvoja marikulture, završen 1995.
9. Integralni katastar koncentrisanih zagadivača Jadranskog mora.
10. Bentoske biocenozе (naselja dna) priobalnog mora crne Gore
11. Bioekološki potencijali priobalnog mora Crne Gore (zoobentos, fitobentos i nalazišta riblje mladi važnih vrsta)

Učešće u projektima

1. Neke komponente iz lanca ishrane na karakterističnim područjima u južnom Jadranu u odnosu na produktivne kapacitete i mogućnost eksploatacije nekih ekonomski interesantnih vrsta.
2. Ekološka i biocenološka istraživanja cenobionatalitorala južnog Jadrana s posebnim obzirom na ekonomski važne vrste.
3. Karakteristike i kapaciteti priobalnog pojasa Crnogorskog primorja sa aspekta zaštite i valorizacije.
4. Vještačka fertilizacija morskih organizama (međunarodni projekat, saradnja Zavoda sa BAH Hamburg).
5. Izolovanje i karakterizacija bioaktivnih jedinjenja iz morskih organizama.
6. Kvalitativno kvantitativna proučavanja, zaštita i valorizacija ihtioloških resursa južnog Jadrana.

Studije- koordinator, koautor, autor:

1. Bazna studija "Nulto stanje" Fizičko-hemijske i biološke karakteristike voda u akvatorijumu brodogradilišta "Veljko Vlahović", Bijela
2. Dinamičke, hidrometeorološke i batimetrijske karakteristike priobalnog mora Crnogorskog primorja.
3. Zaštita čovjekove životne sredine na području opštine Bar. Studija za potrebe revizije GUP-a.
4. Zaštita čovjekove životne sredine na području opštine Ulcinj. Studija za potrebe revizije GUP-a.
5. Mineralne vode na području Igala.
6. Mogućnosti izgradnje marina u Kotorskom zalivu.
7. Preliminarna studija izvodljivosti u vezi sa realizacijom italijansko-jugoslavenskih joint-ventures na planu izgradnje i upravljanja objektima morskog ribnjačarstva kao i plasmana njihove proizvodnje.
8. Tehničko tehnološki proces za uzgoj školjkaša u Hercegnovskom zalivu.
9. Zaštita mora na širem području Orahovca
10. Mogućnosti i opravdanost proizvodnje dagnje (*M. galloprovincialis*) u uslovima Kotorskog zaliva.
11. Strategija razvoja morskog ribarstva Crne Gore.
12. Bioekološki potencijali, zagađenost, namjena i konflikti priobalnog mora RCG.
13. Komercijalni uzgoj dagnje (*Mytillus galloprovincialis*) u uslovima Bokokotorskog zaliva.

Monografija:

Mandić, S. 1984. Cephalopoda Južnog Jadrana. Kotor.

Mandić, S & Mandić M. (2011): 50 years of the Institute of marine biology, Kotor. Institute of marine biology, Kotor. University of Montenegro. 84 p. ISBN 978-86-7664-101-7

Mandić, S., Radović, I. and Radović D. (2016). Physical and Geographical Description of the Boka Kotorska Bay. In Joksimovic et al. (eds.) The Boka Kotorska Bay Environment, Hdb Env Chem., DOI 10.1007/698_2016_27 Springer International Publishing Switzerland.

Ostale aktivnosti:

- Od 1985. godine član je Komiteta za Vertebrata i Cephalopoda Komisije za naučno istraživanje Mediterana(C.I.E.S.M.)
- Član je društava: ekologa, biosistematičara, ihtiologa, Unije naučnih društava Jugoslavije.
- Dugogodišnji član redakcije naučnog časopisa "Studia Marina", izdavač Zavod za biologiju mora Kotor.
- Dugogodišnji član Jugoslovenske komisije za zaštitu Jadrana, koordinator za Crnu Goru.
- Dugogodišnji član Izvršnog odbora SIZ-a za naučne djelatnosti SRCG, a u jednom mandatu i predsjednik Skupštine SIZ-a
- Član i predsjednik Komisije za PMN SIZa i fonda za naučni rad. U jednom periodu predsjednik Komisije za ocjenu naučnih projekata kod fonda za naučne djelatnosti RCG.
- Član Komisije za nostrifikaciju diploma iz područja biologije.

- Koautor Elaborata o osnivanju studija biologije na PMF Univerziteta Crne Gore.
- Od 1980-1994 direktor Zavoda za biologiju mora Kotor, a u jednom periodu VD direktora Instituta za biološka i medicinska istraživanja u SRCG, od 1994-2007 direktor Instituta za biologiju mora u Kotoru.
- Član Savjeta projekta "Razvoj morskog dobra".
- Predsjednik Ekološkog društva Boke Kotorske ·
- Recenzent većeg broja studija, projekata i elaborata iz oblasti svoje specijalnosti, kao i recenzent za izbor u stručna i naučna zvanja uz koordinaciju i mentorstvo za izradu diplomskih radova, magistarskih teza i doktorskih disertacija.
- Za studije zaštite životne sredine primorskih opština (rađene poslije zemljotresa 1979 g.) koautor i stručni konsultant.
- Stručni konsultant za investicione projekte "Energoprojekta", za oblast hidrodinamike u priobalnoj zoni Crnogorskog primorja za potrebe vodosnadbijevanja i kanalizacionog sistema.
- Saradnik ekspertnog tima "UNIDO-a" za izradu projekta: Zaštita Bokokotorskog zaliva od industrijskog zagađenja.
- Član i predsjednik komisija primorskih SO za urbanizam i zaštitu životne sredine.
- Bez zvaničnih nagrada i društvenih priznanja.
- Veći broj novinskih članaka, intervju i saopštenja iz oblasti svoga rada.