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### **Romanian hydrobiology on the way of hopes - bridge over the years**

Romanian Society of Limnology, with support of Romanian Academy Committee of Oceanography and Limnology starts on the road with a new scientific publication – “**Romanian Journal of Aquatic Ecology**” magazine.

By the will of Romanian Society of Limnology members, organization founded in the year 2006, it was decided that “**Rom. J. Aquat. Ecol.**” should continue the tradition, as a new series, of the “**Hidrobiologia**” magazine which was published in 20 volumes in the 1959 – 1992 period under aegis of Romanian Academy. Let’s wish it a good journey, hoping that soon it will align with leading similar magazines, acquiring all certifications that would recommend it to reference scientific community by regular appearances, by interesting articles subject to prior revision of renowned specialists.

**Romanian Limnology Society** needs a stage by which it exposes the results of scientific activities and the way to accomplish its **major objectives**:

- Achievement of cohesion between specialists of theoretical and applied limnology (and related areas) that work in academic, research institutes, higher education institutions, national environmental monitoring system or in economic units that capitalize aquatic resources.
- Assuming a role of bond and cooperation link between professional limnologists community and governmental structures that elaborates politics / plans of national development, respectively the one that administrates profile components of the natural aquatic capital and between field specialists from Romania and the ones from another national or international societies / associations in the field (International Limnology Society, International Association for the Study of Danube, etc.).
- Participation at scientific foundation of the management, sustainable development and conservation of aquatic basins biodiversity, including the wetlands.
- Independent participation, as an approved representative of the civil society, at expertise activities in situations of accidents or ecological disasters damaging the natural capital, especially the surface water or groundwater, as well as the aquatic resources.
- Evaluation of the general level of knowledge, identification of gaps and of uncertainties in the field of theoretical and applied limnology.
- Launch of proposal to governmental structures that are in charge of scientific research coordination, for the establishment of priorities in major research directions from the field of theoretical and applied limnology.
- Participation at the development of limnological investigations methodology and at the standardization of this at a national level, according to EC directives.
- Elaboration of some improvement proposals of the teaching content and methods of specialized knowledge in profile higher education according with European and world requirements and standards.
- Public awareness, mainly by mass-media, on issues of protection and rational capitalization of waters and aquatic resources.
- Facilitating access to information for the association members and other interested specialists by establishment of a library with book and periodical fund in a printed and online format.

This objectives are in full accordance with the provisions of Romanian Academy Committee of Oceanography and Limnology (COLAR) which, among others, has in view the stimulation of Romanian scientific creation in the field of complex aquatic environment researches, especially the synthetic and interdisciplinary ones, and actively contributes to the scientific exploitation and research results dissemination, organizing scientific events and supporting the publication of papers.

Many from the above desiderata can find their affirmation tribune in „**Rom. J. Aquat. Ecol.**”. The water global resources and their ecosystems, including the Romanian ones, face unimaginable challenges that rise many study problems for the scientific community to answer. Solving these problems has to find its place in „**Rom. J. Aquat. Ecol.**”. We need a transparent, consistent and logical framework for the assessment of available information that would generate, in papers accepted for publication, reliability and utility through clear conclusions.

„**Rom. J. Aquat. Ecol.**” by the *peer review* system, will ensure the reduction of ambiguity and subjectivity, support or reject of causal links based on well reasoned quality records, for clearly answer specific questions.

„**Rom. J. Aquat. Ecol.**” will consider the equal promotion of standardized sampling methods, sample analysis and data interpretation, as well as of waters management techniques and principles:

- predictive models and software for the evaluation of biological health status of wetlands, especially of rivers, lakes and marine coastal areas;
- watershed management in order to maximize the ecological results in a changing environment;
- use of techniques regarding the causal criteria with the purpose of application of ecological knowledge in water management for environmental protection.

Also, „**Rom. J. Aquat. Ecol.**” will promote the interest for:

- study of the effects (usually negative) produced on aquatic ecosystems by human activities;
- periodical evaluation of the state of natural capital represented by aquatic ecosystems;
- acquiring ecological answers at matter and energy flows variations in aquatic ecosystems;
- a better use of previously gathered data by monitoring programs, research programs and published specialty literature, goal that could be achieved by:
  - using modeling techniques, that will use previously data and expert opinions to provide stations of multiple parameters for statistics models and enduring a more efficient use of the field data that we possess and
  - use of analysis based on causal criteria in order to systematically evaluate the evidence for or against the problems of general and applied ecological importance and in order to elaborate evidence grounded conceptual models.

From the end of the “Hidrobiologia” appearance, almost two decades ago, the Romanian scientific production regarding the knowledge of aquatic ecosystems in Romania was stored during the 1990 – 2010 period in a succession of new periodical publications, books, monographs, that we randomly present in the following appendix. These publications represent an eloquent proof of the scientific potential for ecohydrological research in Romania. Note the fact that this potential is represented mostly by young researchers embarked on the way to affirmation during the last years.

So, we start on this road with this thoughts and the hope that they will be achieved progressively, as the direct confrontation generated by “**Romanian Journal of Aquatic Ecology**” will take place, as this new publication will acquire performances that will justify its assertion.

## **Anexă/Annex**

### **Literatură hidrobiologică românească publicată după anul 1990/ Romanian Hydrobiological Literature published after 1990**

#### **Publicații periodice/Regular publications:**

- Analele Științifice ale Institutului Național de Cercetare-Dezvoltare Delta Dunării/Scientific Annals of the Danube Delta Institute, Tulcea, Romania, 1992-prezent/present; [http://www.ddni.ro/index.php?page\\_id=132&siteSection=6&sectionTitle=Relevant%20Publications](http://www.ddni.ro/index.php?page_id=132&siteSection=6&sectionTitle=Relevant%20Publications)
- GeoEcoMarina, Constanța, România, 1996-prezent/present; <http://www.geocomar.ro/website/publicatii-revista-geo-eco-marina.html>
- Transylvanian Review of Systematical and Ecological Research, Sibiu, Romania, 1999-prezent/present; <http://stiinte.ulbsibiu.ro/trser/>
- Acta Ichtiologica Romanica, Publicație a Societății de Ichtiologie din România, Sibiu, Romania, 2006-prezent/present; <http://reviste.ulbsibiu.ro/actair/index.html>

#### **Lucrări cu caracter monografic/Monographic works:**

- Curtean-Bănăduc A., 2005 - Râul Cibin, caracterizare ecologică, Editura Universității "Lucian Blaga", Sibiu: 240 pp.
- Bura M., 2002 - Acvacultură specială, broaște, crustacee și moluște, Editura Orizonturi Universitare Timișoara: 366 pp.
- Diaconeasa D. I., 2009 - Geodinamica Litoralului Românesc al Mării Negre – Zona Băii Mamaia (Geodynamics of Romanian Black Sea Coast – Mamaia Bay), Editura Universitară, București: 125 pp.
- Driga B.-V., 2004 - Delta Dunării, Sistemul circulației apei, Casa Cărții de Știință, Cluj Napoca: 256 pp.
- Gâștescu P., Știucă R. (Editori), 2006 - Delta Dunării Rezervație a Biosferei, Editura Dobrogea: 485 pp.
- Gâștescu P., Știucă R., 2008 - Delta Dunării - Rezervație a Biosferei, Editura CD Press, 400 pp.
- Iordache V., 2009 - Ecotoxicologia metalelor grele în lunca Dunării, Editura Ars Docendi, 339 pp.
- Matienco B., Brezeanu A., Maximova E., Marinescu M., Cogălniceanu G., 2004 - Carpocultura in vitro, Nonmorphogenic pathway, Editura Știința: 135 pp.
- Neagu A.-N., Miron I., 2008 - Bioindicatori de calitate a apelor curgătoare, Editura Universității "Alexandru Ioan Cuza" Iași: 238 pp.
- Oțel V., (coord.) 2000 - Lista Roșie a speciilor de plante și animale din Rezervația Biosferei Delta Dunării România, (The Red List of plant and animal species from the Danube Delta Biosphere Reserve Romania) Editura Fundația Aves: 132 pp
- Radu Gh., Radu E., 2008 - Determinator al principalelor specii de pești din Marea Neagră, Institutul Național de Cercetare- Dezvoltare Marină "Grigore Antipa" Constanța, Editura Virom, Constanța: 558 pp.
- Rîșnoveanu G., Vădineanu A., 2000 - Evaluarea rolului asociațiilor și populațiilor în funcționarea sistemelor ecologice; studiu de caz: Oligochete acvatice din Dunărea Inferioară și Delta Dunării, Editura Ars Docendi: 240 pp.
- Romanescu Gh., 2006 – Complexul lagunar Razim – Sinoe, studiu monografic, Editura Universității "Alexandru Ioan Cuza" Iași: 182 pp.

- Wilhelm S., Ardelean G., 2009 - Țigănușul (*Umbra krameri*), studiu monographic, Editura Daya Satu Mare, 132 pp.
- Zinevici V., Ionică D., Parpală L., Sandu C., Mușă R., Dobre D.-S., 2006 - Diversitatea unor comunități de organisme acvatice în sisteme ecologice din zonele Erenciuc și Gorgostel (Delta Dunării), Editura Ars Docendi, București: 302 pp.
- Lacurile de Acumulare din România, 1999 - Editura Universității „Alexandru Ioan Cuza” Iași: vol. II, 232 pp. Miron I..

**Culegeri de abstracte ale lucrărilor prezentate la reuniuni științifice/  
Abstract collections of papers presented at scientific meetings:**

- Aquatic Biodiversity International Conference, Sibiu, România, 2007-present/present.
- The 6<sup>th</sup> Symposium for European Freshwater Sciences, august 17<sup>th</sup> – 21<sup>st</sup>, International Conferences Centre and Palace Hotel, Sinaia, România, Scientific Programme and Abstracts, 2009.
- Analele Științifice ale Universității “Alexandru Ioan Cuza” din Iași, Lucrările Conferinței Naționale - Biodiversitate și Impact Antropic în Marea Neagră și în ecosistemele litorale ale Mării Negre, Editura Universității “Alexandru Ioan Cuza” Iași: 172 pp., 2006.