

“Petre Jitariu” Biological Research Station, Potoci, Neamt county

Limnology, Hydrobiology & Water Quality
studies



**“Alexandru Ioan Cuza”
University of Iasi, Romania**

Lacul Izvoru Muntelui – Bicaz

“Petre Jitariu” Biological
Research Station





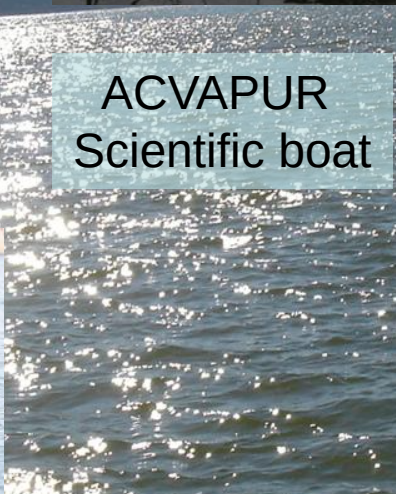
Logan MCV



ACVAPUR
Scientific boat



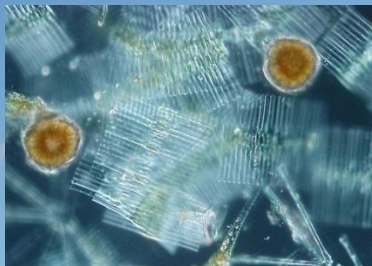
CUDA Sonar



Multiparameter Water Quality Sonde YSI 6600 V2-2 (for pH, dissolved oxygen, conductivity, turbidity, chlorophyll, O.R.P., depth and t°C measurements)

6 10:17AM

Phytoplankton sampling



http://en.wikipedia.org/wiki/File:Phytoplankton_Lake_Chuzenji.jpg



WILDCO
Horizontal water
sampler



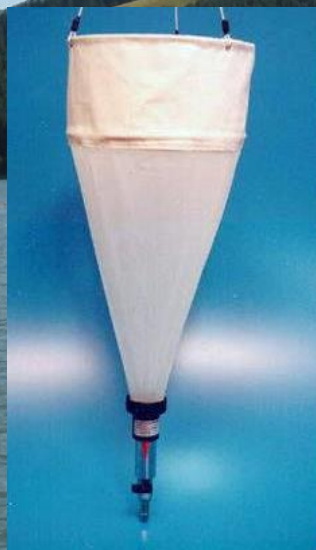
WILDCO
SECCHI disc



Zooplankton sampling



<http://www.mychamplain.net/forum/la-ke-champlain%E2%80%99s-plankton-changing>



KC-Denmark
Plankton net

<http://www.kc-denmark.dk/products/plankton-nets/small-plankton-net-oe25-cm.aspx>



WILDCO Birge
closing net



Benthos (bottom
/mud/sediment)
sampling



WILDCO K-B corer



WILDCO KEMMERER
sampler



WILDCO Biological dredge with net



WILDCO PONAR benthic grab

DIVING



Scuba diving equipment



COLTRI MCH 13/ETC
stable scuba compressor



COLTRI MCH 6 mobile
scuba compressor



6 Electricity
generator

LABORATORY ACTIVITY

Phytoplankton analysis



Sample sedimentation



Palmer counting cell

<http://www.envcoglobal.com/catalog/product/phytoplankton-counting/palmer-counting-cell.html>

&



Hettich EBA 20 centrifuge

<http://www.dotmed.com/listing/centrifuge/hettich/eba-20-benchtop/1204994>



Sedgewick-Rafter counting cell

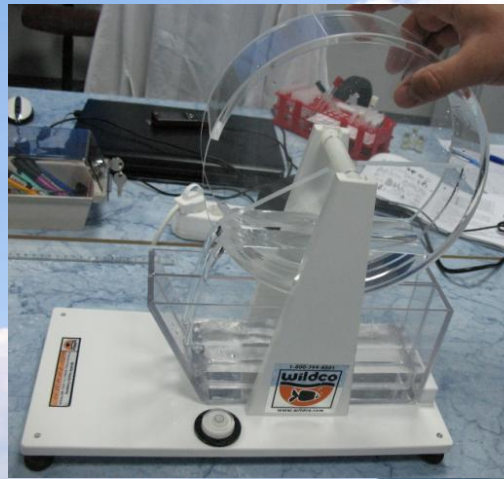
<http://www.wildco.com/Sedgewick-Rafter-Counting-Cells-Brass-1.0mL.html>



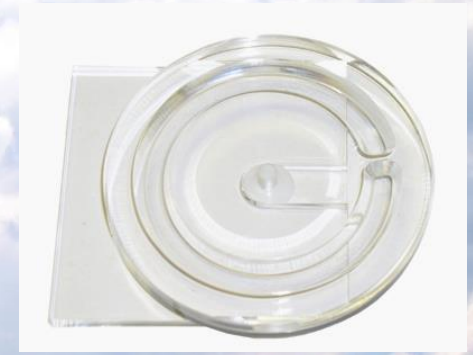
NIKON Eclipse inverted microscope TS 100

Zooplankton analysis

SHIMADZU
Analytic
balance



FOLSOM System for dividing
zooplankton samples



WARD counting wheel
<http://www.wildco.com/Ward-Counting-Wheel-Clear-PVC-5-10mL.html>

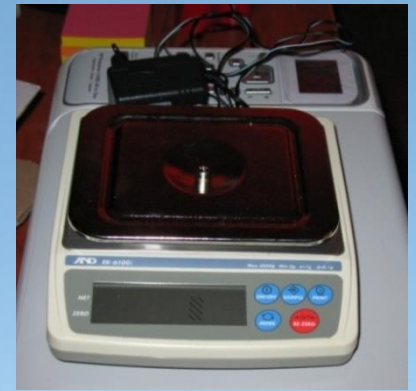


OPTIKA stereomicroscope SZM-2



OPTIKA microscope BT 600

Necton analysis (FISH)



EK6100i Technique
balance, 0,01g



Necton analysis (FISH)



CUDA sonar



Fishing nets



L.S.-1 Submerged laboratory



WATER quality analysis

A. Trophy level (life sustaining capacity) analysis using *chlorophyll a* concentration ($\mu\text{g/l}$)



1. Vacuum Pump ME32



2. Lauda AL5 water bath



3. Shimadzu UV-1700 PharmaSpec UV-VIS spectrophotometer

B. Assessment of microbiological activity through the Biochemical Oxygen Demand (B.O.D.)



VELP BOD Incubator with cooling + BOD measuring system

Performed analysis

Lecturer Manuela Miron, Ph.D.

- Managerial activities
- Necton and macrozoobenthos sampling and sample processing; qualitative and quantitative identification.
- Data analysis and interpretation.
- Ethology of hydrobionts

6 11:15AM

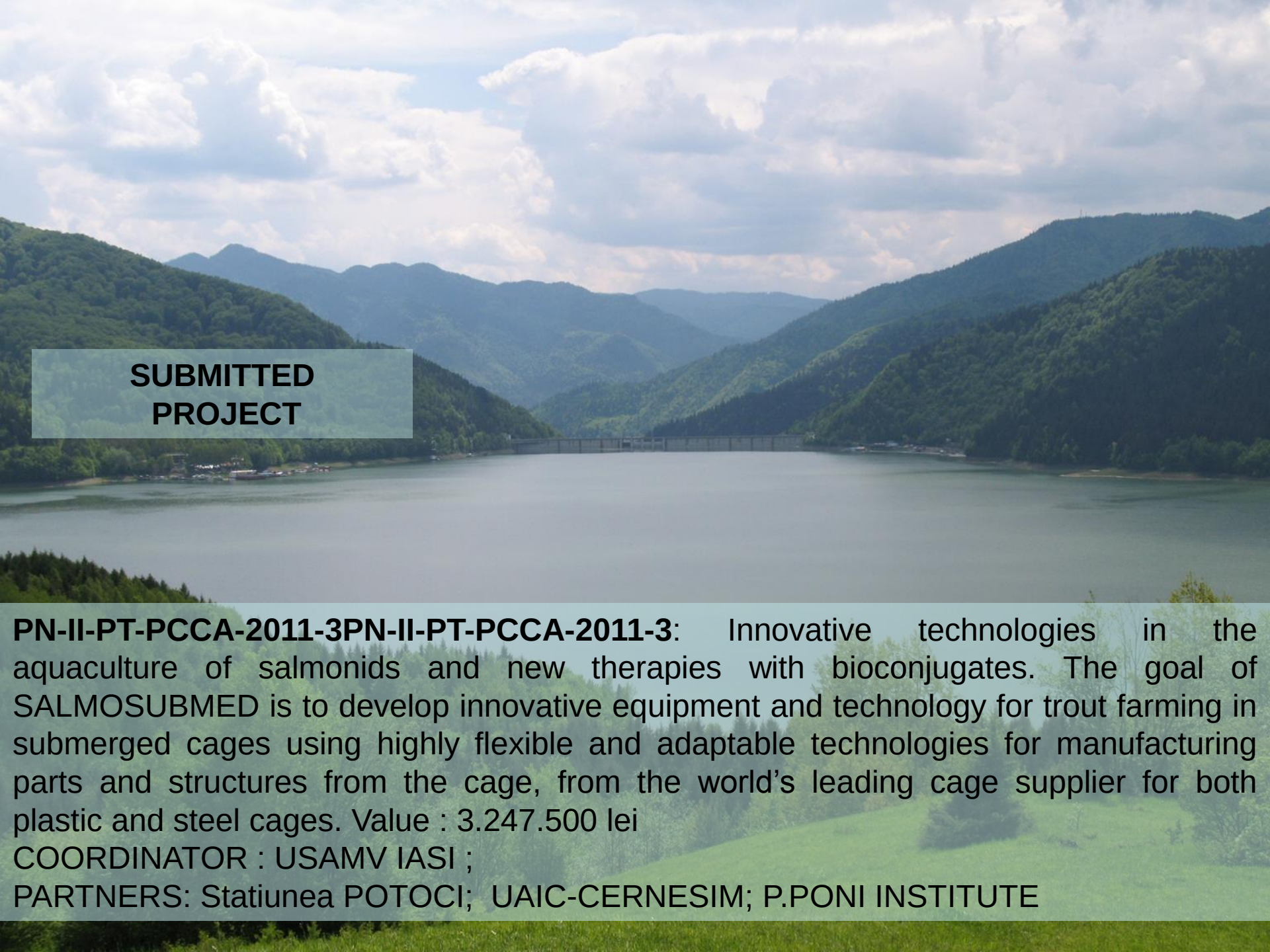
Research Assistant Carmen Aoncioaie, Ph.D.

- Phytoplankton and *chlorophyll a* sampling; sample processing (conservation in situ, laboratory processing);
- Qualitative and quantitative identification of freshwater algae (phytoplankton, periphyton);
- Macrophytes (taxonomical identification and vegetal associations assessment);
- Determination of *Chlorophyll a* concentration by spectrophotometer method;
- Determination of physico-chemical properties of water using Aquamerck "*Compact Laboratory for water testing*" and Multiparameter Sonde Type 6600 V2-2;
- Data analysis and interpretation.

6 11:15AM

Research Assistant Mihai – Georgel Erhan, Ph.D.

- Zooplankton sampling and sample processing (conservation in situ, laboratory processing);
- Qualitative and quantitative identification of freshwater zooplankton (Copepoda and Cladocera);
- Determination of physico-chemical properties of water using Aquamerk "*Compact Laboratory for water testing*" and Multiparameter Sonde Type 6600 V2-2;
- Calibration process of Multiparameter Sonde Type 6600 V2-2
- Data analysis and interpretation.
- Responsible with transport and fuel management for auto-laboratory Logan MCV and ACVAPUR research boat.



SUBMITTED PROJECT

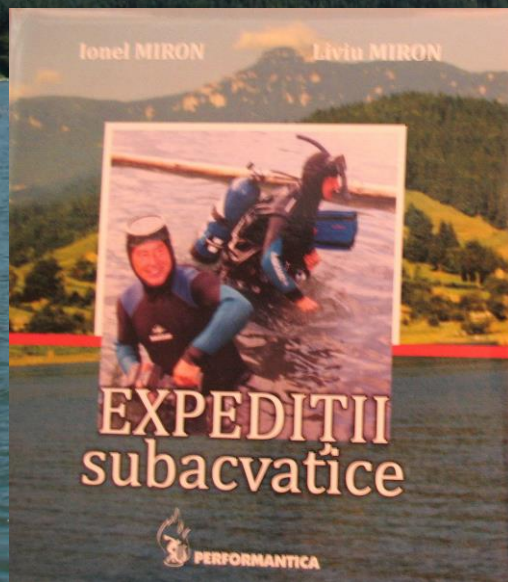
PN-II-PT-PCCA-2011-3PN-II-PT-PCCA-2011-3: Innovative technologies in the aquaculture of salmonids and new therapies with bioconjugates. The goal of SALMOSUBMED is to develop innovative equipment and technology for trout farming in submerged cages using highly flexible and adaptable technologies for manufacturing parts and structures from the cage, from the world's leading cage supplier for both plastic and steel cages. Value : 3.247.500 lei
COORDINATOR : USAMV IASI ;
PARTNERS: Statiunea POTOCI; UAIC-CERNESIM; P.PONI INSTITUTE

Al 3-lea Simpozion

LACURILE DE ACUMULARE DIN ROMÂNIA

(Tipologie, Valorificare, Protecție)

3 - 5 octombrie 2012



**Thank you for your attention!!
We are open to any collaboration
proposition!!**

