University of São Paulo Polytechnic School

Hydraulic and Environmental Engineering Department

(www.phd.poli.usp.br)

Prof.: Mierzwa, J.C.
mierzwa@usp.br
The Department:

- 22 Professors;

- Degrees:
  - Undergraduate ➔ Environmental and civil engineering;
  - Graduation ➔ Master and PhD.

- Research:
  - Most related to hydric resources management, water and wastewater related issues, and environmental management and technologies.
Laboratories

- CTH – Hydraulic Technological Center (http://www.cth.usp.br/);
- LABSID – Laboratory for Decision Support Systems (http://www.labsid.eng.br/);
- CIRRA – International Reference Center on Water Reuse (http://www.usp.br/cirra/);
- LABSAN – Sanitary Laboratory.
Research

- Water management:
  - Development of hydric resources management plans;
  - Water quality management;
  - Modeling and optimization of reservoirs operation, considering multiple uses;
  - Hydrological monitoring and modeling;
  - Decision support systems;
  - Urban water (urban drainage, flood control, and extreme events);
  - Water and the environment (water management considering climatic variations).
People

- Prof. Monica Ferreira do Amaral Porto (mporto@usp.br);
- Prof. Mário Thadeu Leme de Barros (mtbarros@usp.br);
- Prof. Benedito Braga (benbraga@usp.br);
- Prof. Rubem La Laina Porto (rlporto@usp.br);
- Prof. José Rodolfo Scarati Martins (scarati@usp.br);
- Prof. Arisvaldo Vieira Mello Júnior (arimellojr@gmail.com);
- Prof. Renato Carlos Zambon (rczambon@usp.br).
Hydraulic and hydraulic and maritime structures:

- Maritime and hydraulic structures modeling (physical models);
- Studies of hydraulic phenomena (flow in channels, maritime flows, tides and waves);
- Sedimentology in rivers, estuaries, and coastal waters.
People

- Prof. Paolo Alfredini (paolo.alfredini@poli.usp.br);
- Prof. Luís Cesar de Souza Pinto (lcesar@usp.br);
- Podalyro Amaral de Souza (podalyro.souza@poli.usp.br);
- Prof. Carlos Lloret Ramos (clramos@cth.usp.br).
Sanitation and environment:

- Water treatment systems;
- Wastewater treatment systems;
- Water conservation and reuse;
- Environmental impact assessment;
- Environmental planning;
- Pollution prevention;
- Soil remediation;
- Membrane technology.
People

- Prof. José Carlos Mierzwa (mierzwa@usp.br);
- Prof. Sidney Seckler Ferreira Filho (ssffilho@usp.br);
- Prof. Roque Passos Piveli (rppiveli@usp.br);
- Prof. Pedro Alem Sobrinho (palem@usp.br);
- Prof. Dione Mari Morita (dmmorita@usp.br);
- Prof. Ronan Cleber Contrera (ronancontrera@gmail.com).
Thank you very much!