

-4H- JENA engineering

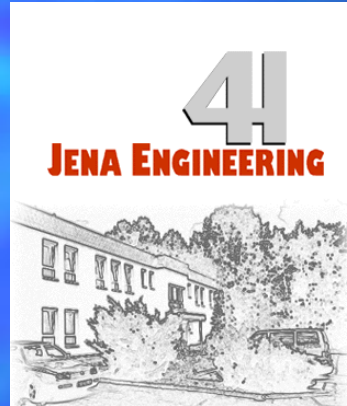
Novel systems for monitoring purposes:
Self-cleaning Monitoring Box in
master/slave mode and new combined
litter/plankton and passive samplers

Tobias Boehme
-4H- JENA engineering GmbH

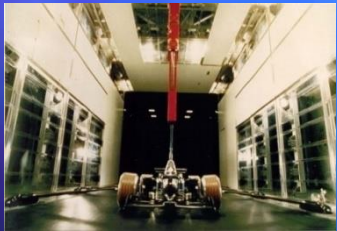
Contents

- Company
- New sampling systems
 - Passive sampler
 - Litter and plankton sampler
 - Combination of sampling system
- Self cleaning Monitoring Box
- -4H- FerryBox reach Africa

Company profile



Optical inspection
techniques

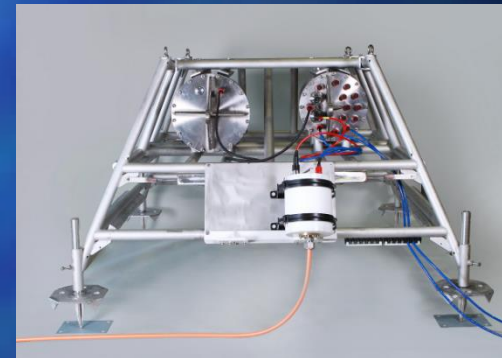


Industrial
services

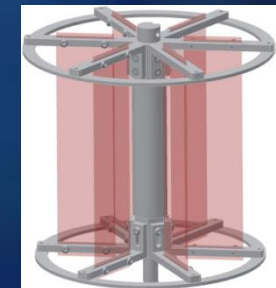
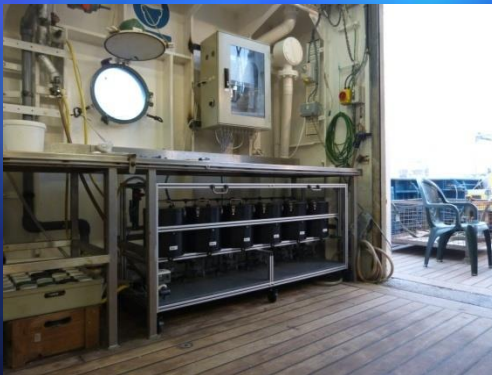
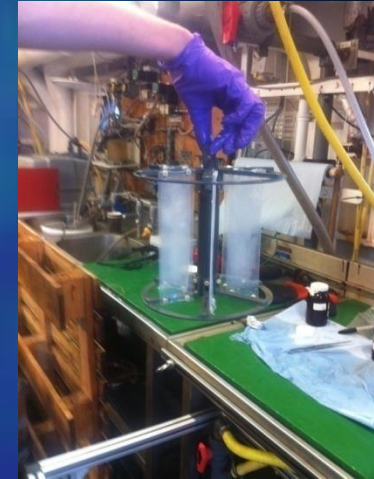
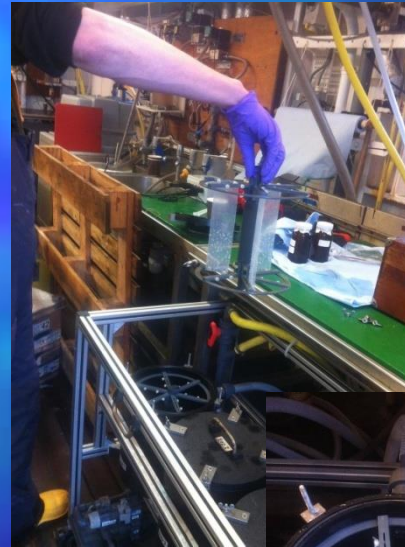


Marine
techniques

Marine techniques



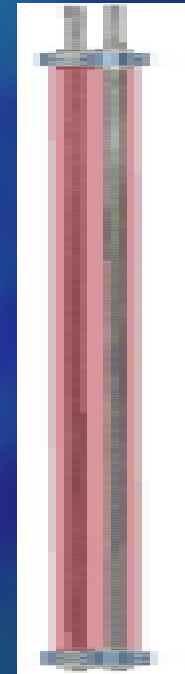
-4H- Passive sampler



In cooperation with CEFAS

Special designed foil holder

-4H- Passive sampler



Corsica ferries UNICA

rubber strips and low-density polyethylene holder

-4H- litre plankton sampler



In cooperation with CEFAS

-4H- litre plankton sampler



In cooperation with CEFAS

Special designed for dual use at different seasons

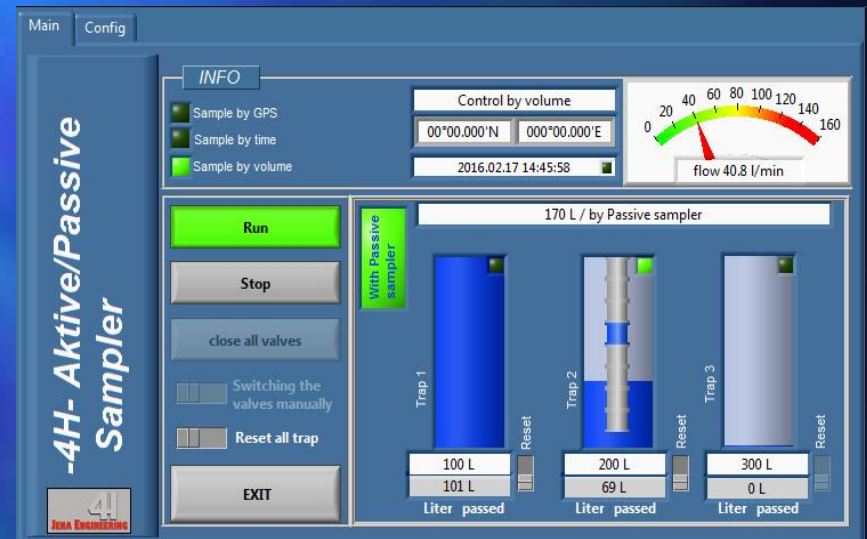
Combined litre/plankton and passive sampler



Corsica ferries CIBM

Software controlled sampling

- Based on LabVIEW
- Stop after defined Volume
- Area controlled
- Fixed time period
- Harbor controlled stopping
- Error controlled stopping/switching



-4H- Self cleaning Monitoring Box



- Equipped with standard parameter (C,T,S, Chl-a, Turbidity and sound velocity)
- Master, slave and stand alone operation
- No data leak
- Data quality check with sound velocity
- Anti-fouling with acid or bleaching solutions
- Opportunity for waste tank for the acid
- Expandable for further parameters with extra frames

In cooperation with the IOW Warnemünde

-4H- FerryBox Tunisia



Parameter:

T, S, DO, Chl-a, Turbidity, pH, pCO₂ and Algae species)

A cooperation between ISTM and MIO

The Customer configure their own system

Thank you very much
for your attention

