

## FLUID DYNAMICS RESEARCH ON MARINE WORMS (NEREIS DIVERSICOLOR)

### PROJECT AIM

The aim the project is to do the fluid dyanmic analyze of swimming wroms(Nereis diversicolor) by using the technique of PIV (Particle Imagenary Velomency) and to prove the possibity of a bio-inspired worm-like pump.

### PROGRESS

Few results have been achieved in last year:

- 1) Kinematics of the swimming worm has been analyzed.
- 2) PIV measurement has been done on freely swimming worms.
- 3) Fluid dynamics of the worms' pumping function has been done using PIV.

### DISSERTATIONS

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### SCIENTIFIC PUBLICATIONS

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### PROJECT LEADERS

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### RESEARCH THEME

Complex dynamics of fluids

### PARTICIPANTS

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### COOPERATIONS

University of Bath, UK

### FUNDED

TUD

1<sup>st</sup> 100% 2<sup>nd</sup> - 3<sup>rd</sup> -

### START OF THE PROJECT

2008

### INFORMATION

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