

**W E D N E S D A Y , 26<sup>TH</sup> OCTOBER 2011****8.30 a.m. - 9.30 a.m. Registration****9.30 a.m. Opening of the Workshop**

Welcome to the participants by the Chairman A. Soldo

**METHODS AND DEVELOPMENT IN FISHERY SCIENCE****9.45 a.m. - 11.15 a.m. Session 1: Chair – T. Yamane**

A. Soldo, I. Glavičić, CROATIA

**Underwater visual census (UVC) of vertical reefs**

G. Niedzwiedz, D. Schories, GERMANY - CHILE

**GPS-supported monitoring by scientific divers within a Chilean – German Antarctic project**S. Torisawa, M. Kadota, K. Komeyama, T. Takagi, T. Yamane, JAPAN  
**Three-dimensional monitoring of Pacific bluefin tuna cultured in an off shore net cage using a digital stereo camera system**

M. Slišković, G. J. Mrčelić, CROATIA

**System dynamics model of sardine population (*Sardina Pilchardus*) in the Eastern Adriatic Sea****11.15 a.m. - 11.45 a.m. Coffee break****11.45 a.m. - 1.15 p.m. Session 2: Chair – L. Karlsen**

T. Yamane, Y. Mitsunaga, T. Hiraishi, JAPAN

**Estimation of the jet-propulsive force of *Photogobius edulis* using a micro-acceleration data logger attached on a main line of the vertical drift line**

M. Krželj, V. Šimat, S. Bratinčević, T. Bogdanović, CROATIA

**Meiofauna and farm affected wild fish monitoring as new requirement of assessing influence of fish farms structures on the marine environment**

J. Lee, C.-W. Lee, I. Lee, B.-H. Lee, H.-J. Kim, KOREA

**Analysis of greenhouse gas emissions from fisheries in Korea****1.15 p.m. - 2.30 p.m. Lunch****UNDERWATER ROBOTICS****2.30 p.m. - 4.00 p.m. Session 3: Chair – D. Priour**

Z. Vukić, CROATIA

**Underwater robotics – present state and the future**

B. Borović, A. Vasilijević, O. Kuljača, CROATIA

**Potentials of using underwater robotics for fishing and fish farming**

L. Karlsen, NORWAY

**Search for and salvage of lost aircrafts during last World War in the Trondheims-Fjord area****T H U R S D A Y , 27<sup>TH</sup> OCTOBER 2011****INVESTIGATIONS ON FLUID-NETTING INTERACTIONS****9.00 a.m. - 10.30 a.m. Session 4: Chair – C.-W. Lee**

I. Mnassri, D. Le Touzé, B. Vincent, B. Alessandrini, FRANCE

**A numerical investigation for underwater fluid-netting interaction problem**

N. Madsen, K. Hansen, B. Enerhaug, NORWAY

**Experimental analysis of the hydrodynamic coefficients of net panels in the flume tank in Hirtshals**

M. Paschen, K. Breddermann, GERMANY

**Hydrodynamic loads on two-dimensional sheets of netting within the range of small angles of attack**

K. Breddermann, M. Paschen, GERMANY

**On the way to plankton net calibration****10.30 a.m. - 11.00 a.m. Coffee break****11.00 a.m. - 12.30 a.m. Session 5: Chair – B. O'Neill**

E. Bouhoubeiny, Ph. Druault, G. Germain, FRANCE

**Experimental investigation of the flow dynamics around moving fishing net structure**

Ø. Patursson, K. Simonsen, FAROE ISLANDS

**Field measurements of interaction between fluid flow and a fish farming cage of the gravity type typically used in the Faroe Islands**

D. Priour, FRANCE

**Investigation of methods for the assessment of the flexural stiffness of netting panels****12.30 a.m. - 2.00 p.m. Lunch****2.00 p.m. - 4.00 p.m. Session 6: Chair – M. Paschen****SIMULATIONS AND MODEL TESTS**

A.J. Beveridge, F.G. O'Neill, SCOTLAND

**Modelling gear - seabed interaction during demersal trawling – design study**

B. Enerhaug, NORWAY

**Contact forces between seabed and fishing gear components**

G. E. Kebede, C.-W. Lee, J. Lee, I. Lee, B.-H. Lee, H.-J. Kim, KOREA

**A study on the deformation and response of a fish cage in currents and waves**

H. Korte, et al., GERMANY

**SOOP: Safe offshore – operations****F R I D A Y , 28<sup>TH</sup> OCTOBER 2011****9.00 a.m. - 10.30 a.m. Session 7: Chair – H. Polet**

T. Takagi, K. Suzuki, S. Torisawa, K. Komeyama, M. Kadota, S. Asaumi, JAPAN

**Application of NaLA: From study to practical use**

A.A. Nedostup, RUSSIA

**Rules of physical modelling of dynamic processes of fishery**

A.A. Pavlenko, A.A. Nedostup, RUSSIA

**Features of distribution of loading in codend of trawl of a various design****10.30 a.m. - 11.00 a.m. Coffee break****11.00 a.m. - 12.30 a.m. Session 8: Chair – A. Nedostup****METHODS AND CONCEPTS FOR ENERGY REDUCTION**

D. Damalas, J. Guillen, T. Barbas, ITALY

**European Commission's website on energy efficiency in fisheries**

A. Sala, E. Notti, G. Buglioni, ITALY

**Analysis of energy use in Italian fishing vessels**

G. Germain et al., FRANCE

**HydroPêche: Experimental and numerical developments for fishing devices optimisation**

E.K. Orlov, A.A. Nedostup, RUSSIA

**Results of verification of the formula for calculation of friction coefficient of threads, cords and ropes on a traction drum of the frictional mechanism****12.30 a.m. - 2.00 p.m. Lunch****2.00 p.m. - 4.00 p.m. Session 9: Chair – A. Soldo**

E. Notti, G. Messina, A. Sala, C. Rossi, ITALY

**New hybrid diesel electric propulsion system for trawlers**

A.A. Nedostup, RUSSIA

**The method of calculation of force and geometrical characteristics of bottom trawls****2.00 p.m. - 4.00 p.m. Final discussions  
Preparation of the next workshop  
„DEMaT 2013”**

## MEMBERS of STEERING COMMITTEE

Mathias Paschen Rostock, Germany  
(Chairman)

Ludvig Karlsen	Trondheim, Norway
Chun-Woo Lee	Busan, South Korea
Alexander Nedostup	Kaliningrad, Russia
Pjotr Nowakowski	Szczecin, Poland
Barry O'Neill	Aberdeen, Great Britain
Daniel Priour	Plouzane, France
Alen Soldo	Split, Croatia
Takeshi Yamane	Nara, Japan
Hans Polet	Oostende, Netherlands

## Members of local steering committee

Alen Soldo (Chairman)	Split, Croatia
Svjetlana K. Šifner	Split, Croatia
Gorana Jelić	Split, Croatia
Ivan Jardas	Split, Croatia
Zoran Vukić	Zagreb, Croatia

## Conference fee:

250 € payable by September 10, 2011  
300 € to be paid after September 10, 2011  
150 € for PhD students  
50 € for M.Sc. & B.Sc. students (no Proceedings)

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## Conference venue:

Hotel "President" in Split

E-mail: Alen Soldo [soldo@unist.hr]

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# PROGRAMME

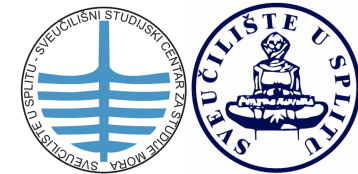
of the 10<sup>th</sup> International Workshop

## METHODS FOR THE DEVELOPMENT AND EVALUATION OF MARITIME TECHNOLOGIES

# „DEMAT '11“

## University of Split, CROATIA

October 26<sup>th</sup> - 28<sup>th</sup>, 2011



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