

CURRICULUM VITAE OF EMILIO NOTTI

PERSONAL INFORMATION

Name, Surname	NOTTI, Emilio
Address	
House number, street name, postcode, city, country	
E-mail	emilio.notti@cnr.it
Website	
Nationality	Italian

SUMMARY

Involved in fishing gear and fishing vessel technology development and engineering. Over ten years of experience in energy performance evaluation and energy audit of commercial fishing vessels. Expert in fishing gear design for bottom trawling and on engineering performances evaluation of the fishing gears. Expert design and development of propulsion system and deck machineries for working boats and fishing vessels. Experience in assessment of impact of fishing activity on marine ecosystem with a focus on seabed impact of bottom trawls. Scientific responsible in national and international research projects, in charge of technical and economic management of the project activities. Responsible for sea trials campaigns onboard research and commercial vessels for technical and engineering testing of fishing gears and technological development of deck machineries.

EDUCATION

Dec 2008	Master degree in mechanical engineering at Università Politecnica delle Marche (Ancona)
Jul 2010	Qualified as Mechanical, industrial and civil engineer. Member of the Order of Engineers of Ancona.

WORK EXPERIENCE

Actual Position	Fishery Technologist
Dec 2018- onward	Permanent position as technologist at National Research Council (CNR) – Institute of Marine Biological Resources and Biotechnologies (IRBIM). Involved in technics and technologies, energy efficiency and environmental impact of fishing gears, fishing vessels and deck machineries.
Jul2013 - Dec 2018	Temporary position as technologist at National Research Council (CNR) – Institute of Marine Sciences (ISMAR), Ancona (Italy). Involved in technics and technologies, energy efficiency and environmental impact of fishing gears, fishing vessels and deck machineries.
Dec 2011 – Jul 2013	Research fellow at National Research Council (CNR) – Institute of Marine Sciences (ISMAR), U.O.S. Ancona (Italy). Involved in technics and technologies for fishing gears, fishing vessels and deck machineries

- Mar 2009 - August 2010 Project manager and responsible of R&D department on a national SME involved in environmental engineering and technology for residential and industrial building.
- Mar 2007 - Feb 2009 Research fellow at National Research Council (CNR) – Institute of Marine Sciences (ISMAR), Ancona (Italy). Involved in research activity on safety on board fishing vessels

PARTICIPATION IN EVALUATION PANELS

- Dec 2018 Member of the evaluation panel for the validation of technical procedures and for the launch tests of a new reduction gear box on the research vessel “G. Dallaporta”, within the framework of the Flag Ship Project “RITMARE”
- Mar 2018 Member of the evaluation panel for the evaluation of public applications composed of technical and economic offer, for technical assistance to the authority “Flag Marche Centro”, 29/03/2018.
- Jul 2017–Aug 2017 Invited scientific expert for the recruitment process of three fisheries officer for positions P4 and P5 promoted by the Fisheries and Aquaculture Policy and Resources Division of FAO (vacancy numbers: IRC 4069; IRC 4070; IRC 4071; 14 candidates).
- Jun 2012–Jul 2012 Independent reviewer on behalf of the MIPAAF, Italian Ministry of Agricultural and Fisheries (Italy) for the definition of a checklist for the evaluation of investments on board fishing vessels contrasting with Regulation (EC) No 1198/2006 art. 25 “Investments on board fishing vessels and selectivity”, par. 2
- Nov 2011–May 2015 Scientific expert reviewer on behalf of the Regional Authority (Italy) for technical and economic analysis of applications for funding for the modernization on board fishing vessels under the Council Regulation (EC) No 1198/2006 art. 25 “Investments on board fishing vessels and selectivity”, par. 2.

INVITED LECTURER IN ADVANCED PROFESSIONAL COURSES AND EXPERT COMMITTEES

- Oct 2019 Invited lecturer on fishing vessel technology and fishing gear technology at the 7th International Master on “Sustainable Fisheries Management” (Oct 14th, 2019, Alicante, Spain). Title of the lecture (4 hr): “Fishing vessel and fishing technology”.
- Apr 2018 Invited key-note speaker at the Working Group on Fishing Technology (WGFiT), FAO – GFCM, Tunis, Tunisia, 17 – 18 Apr 2018
- Mar 2018 Invited independent scientific expert for the workshop “EU TAIEX Workshop on Creating Capacity for Improvement in Fishing Licensing System” requested by the European Commission - Directorate-General Neighbourhood and Enlargement Negotiations, (Mar19th-21st, 2018, Antalya, Turkey).
- Oct 2017 Invited lecturer on fishing vessel technology and fishing gear technology at the 7th International Master on “Sustainable Fisheries Management” (Oct 23th, 2017, Alicante, Spain). Title of the lecture (4 hr): “Fishing vessel and fishing technology”.
- Feb 2017 Invited lecturer at the International Advanced Course “Technological solutions for reduction of discard in fisheries”, organised by the Mediterranean Agronomic Institute of Zaragoza (20-24/02/2017, Zaragoza, Spain).
- Feb 2016 Scientific expert at the international workshop “The role of science in fisheries management”, hosted by Blue Fish Europe, Brussels (25/01/2016)

- Sep 2014-May 2015 Invited as scientific expert for technical consultation to the East China Sea Fisheries Institute, Chinese Academy of Fisheries Sciences on fuel measurement and energy profiling in Chinese fisheries, according to the “Agreement for cooperation of energy saving in trawl fisheries”.
- Apr 2013 Lecturer at the training course at the National Institute of Oceanography and Fisheries (NIOF), Alexandria, Egypt, in fishing vessel technology and deck machineries.

MEMBERSHIP OF PROFESSIONAL SOCIETIES, EDITORIAL BOARDS, SCIENTIFIC WORKING GROUPS

- Sep 2014 Co-Chairman at the OCEANS'14 Congress (St John's, Canada, Sep the 18th, Fisheries session 2)
- Oct 2013 Chair at the 15th International Congress of the International Maritime Association of the Mediterranean - IMAM 2013 (La Coruna, Spain, Oct the 17th, Fisheries session)
- Oct 2013 onward Member of the editorial board of The Journal of Ocean Technology (www.thejot.net)
- Apr 2011 onward Chair-invited member of the ICES/FAO Working Group on Fishing Technology and Fishing Behavior (WGFTFB)

RESEARCH PROJECTS

- Jan 2019 – Feb 2021
Project title: “Technical Assistance for Implementation of Stock Assessments in Fisheries Activities Turkey”, Project No. EuropeAid/139003/IH/SER/TR
Role: scientific responsible for CNR. Technical and scientific advice in training activity for scientific surveys at sea for the evaluation of halieutic resources
- Sep 2018 – Jun 2020
Project title: “CISP – multy-disciplinary hub for innovation in fisheries” – financed by the EMFF through the Fisheries local action group “Flag Marche Centro” (art. 61 EC Reg. 508/2014).
Role: project coordinator. Project management and action leader for technical innovations and pilot projects.
- Jun 2014 – Dec 2019
Project title: Life+ EfficientShip “Demonstration of an innovative ORC module to improve the efficiency of European fishing vessels” – www.efficientship.eu - Grant agreement: LIFE13 ENV/FR/000851
Role: Scientific responsible for CNR. Action leader of work package C: technical, environmental and economic monitoring and assessment of the case study vessel. Action leader of work package B3 related to the technical training of the crew. Technical coordinator of the installation of the Organic Rankine Cycle sea trials and
- Jan 2014 – Dec 2015
Project title: DISCATCH “Pilot project on catch and discard composition including solutions for limitation and possible elimination of unwanted by-catches in trawl net fisheries in the Mediterranean” MARE/2012/24-Lot 2 financed by the EC Commission.
Role: Analysis of morphology data for different species with FISHSELECT tool for the characterization and mathematical modelling of the selective properties of different netting materials.
- Mar 2013 – Oct 2014
Project title: FORCE “Fisheries and aquaculture-Oriented Research Capacity in Egypt” - www.forceproject.eu - Grant agreement: 295004
Role: Analysis of technical specification of Egyptian fishing gears. Modelling of main characteristics of geometrical performances of bottom trawl nets. Invited lecturer in a training course focused on innovation fishing vessel and gears technologies.
- Oct 2012 – Sep 2017
Project title: BENTHIS: “Benthic ecosystem fisheries impact study” FP7-KBBE-2012-1.2-09 – www.benthis.eu - Grant agreement: 312088
Role: Responsible of sea trials on board the R/V “G. Dallaporta” and commercial fishing vessels, and facility tests of experimental otterboards for reducing physical impact of bottom trawl fisheries on the seabed.
- Sep 2012 – Aug 2013
Project title: Technical specifications of Mediterranean trawl gears (myGears) – MAREA Consortium – MARE/2009/05-Lot 1: “Scientific advice and other services for the implementation of the Common Fisheries Policy in the Mediterranean”.
Role: Data collection of Mediterranean trawl gear. Technical modelling of fishing gear properties and technical parameters of fishing nets. Development of modelling software for prediction of dynamics of fishing gears.
- Mar 2012 – Dec 2018
Project title: RITMARE “La Ricerca Italiana per il MARE” - www.ritmare.it
Role: Leader of T1_AZ1_SA3: “Improvement and optimization of propulsion system for fishing vessels”. Analysis and characterization of the propulsion system of a fishing vessel. Technical evaluation of the solutions for improving efficiency of fishing vessel propulsion system.
Leader of T1_AZ2_SA3: “Reduction of physical impact of bottom otter trawl fisheries on the benthonic ecosystem”
- Jul 2010 – Oct 2014
Project title: ICEEF “Information Collection in Energy Efficiency for Fisheries” (Restricted invitation to tender IPSC/2011/04/01/NC) financed by the EC Commission, Joint Research Centre, Institute for the Protection and Security of the Citizen, Maritime Affairs Unit - Grant agreement: 256660
Role: Information collection of technical details and solution for increasing energy efficiency in fisheries. Reporting of information collected. Definition and technical evaluation of potential improvements.

LIST OF SELECTED PUBLICATIONS (ISI)

- Bonanomi, S., Brčić, J., Herrmann, B., **Notti, E.**, Colombelli, A., Moro, F., Pulcinella, J., & Sala, A. (2020). Effect of a lateral square-mesh panel on the catch pattern and catch efficiency in a Mediterranean bottom trawl fishery. *Mediterranean Marine Science*, 0. doi:<http://dx.doi.org/10.12681/mms.21955>
- **Notti, E.**, Figari, M., Sala, A., Martelli, M. 2019. Experimental assessment of the fouling control coating effect on the fuel consumption rate, *Ocen Engineering*, 188:215-224, doi: 10.1016/j.oceaneng.2019.106233
- Sala, A., **Notti, E.**, Bonanomi, S., Pulcinella, J., Colombelli, A. 2019. Trawling in the Mediterranean: an exploration of empirical relations connecting fishing gears, otterboards and propulsive characteristics of fishing vessels, *Frontiers in marine sciences*, Vol. 6 art. 534, doi: 10.3389/fmars.2019.00534
- Kalogirou S., Pihl L., Maravelias C.D., Herrmann B., Smith C.J., Papadopoulou N., **Notti E.**, Sala A. 2019. Shrimp trap selectivity in a Mediterranean small-scale-fishery, *Fisheries Research*, 211: 131-140, doi: 10.1016/j.fishres.2018.11.006
- Mellibovsky, F., Prat, J., **Notti, E.**, Sala, A. 2018. Otterboard hydrodynamic performance testing in flume tank and wind tunnel facilities, *Ocean Engineering*, 149: 238-244, doi: 10.1016/j.oceaneng.2017.12.034
- Utizi, K., **Notti E.**, Sala, A., Buzzi A., Rodella I., Simeoni U., Corbau C. 2018. Impact assessment of EMFF measures on Good Environmental Status (GES) as defined by Italy, *Marine Policy*, 88: 248-260, doi: 10.1016/j.marpol.2017.12.003.
- Martelli, M., Vernengo, G., Bruzzone, D., **Notti, E.** 2017. Holistic modelling of the global propulsion energy index in waves for small craft. *International Journal of Offshore and Polar Engineering*, 27 (4), pp. 442-447, doi: 10.17736/ijope.2017.mk54
- Lucchetti A., **Notti, E.**, Sala A., Virgili M. 2017. Multipurpose use of side-scan sonar technology for fisheries science, *Canadian Journal of Fisheries and Aquatic Sciences*, in press, doi: 10.1139/cjfas-2017-0359
- Martelli M., Vernengo G., Bruzzone D., **Notti E.** 2017. Holistic Modeling of the Global Propulsion Energy Index in Waves for Small Craft. *International Society of Offshore and Polar Engineers, ISOPE (2017) 27 (04): 442-447, ISSN 1053-5381*
- Rogante, M., Kovács, I., **Notti, E.**, Sala, A., Szokefalvi-Nagy, Z. 2017. Feasibility study for PIXE and neutron beam techniques on fishing nets made of polymeric materials. *International conference "Mechanical Technologies and Structural Materials"*, 21st -23rd Sep 2017, Split, Croatia
- Tsagarakis K., Carbonell A., Brčić J., Bellido J. M., Carbonara P., Casciaro L., Edridge A., García T., González M., Krstulović Š. S., Machias A., **Notti E.**, Papantoniou G., Sala A., Škeljo F., Vitale S., Vassilopoulou V. 2017. Old Info for a New Fisheries Policy: Discard Ratios and Lengths at Discarding in EU Mediterranean Bottom Trawl Fisheries. *Frontiers in Marine Science*, 4, pp 99, doi: 10.3389/fmars.2017.00099
- **Notti E.**, Moro F., Sala A., Leroux A., Roger A., Smague P., Leduc P. & Parke N., 2016. EfficientShip: A case study for the implementation of ORC technology on board European fishing vessels. In Guedes Soares, T.A. Santos, *Maritime Technology and Engineering III: Proceedings of the 3rd International Conference on Maritime Technology and Engineering (MARTECH 2016, Lisbon, Portugal, 4-6 Jul2016)*, ISBN 9781138030008, pp: 1208.
- Lucchetti A., Kholeif S.E.A., Mahmoud H.H., **Notti E.**, 2016. Towards sustainable fisheries management in emerging markets: An overview of properties, gaps and opportunities in Egypt. *Marine Policy*, 72: 1-10, doi:10.1016/j.marpol.2016.05.032
- **Notti E.**, Brčić E, De Carlo F, Herrmann B, Lucchetti A, Virgili M, Sala A, 2016. Assessment of the Relative Catch Performance of a Surrounding Net without the purse line as an alternative to a traditional boat seine in small-Scale fisheries. *Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science*, 8(1): 81-91 doi: 10.1080/19425120.2015.1095827
- O'Neill FG, Kynoch RJ, Blackadder L, Fryer RJ, Eryaşar AR, **Notti E.**, Sala A, 2016. The influence of twine tenacity, thickness and bending stiffness on codend selectivity. *Fisheries Research*, 176: 94-99.
- Gabiña G, Basurko OC, **Notti E.**, Sala A, Aldekoa S, Clemente M, Uriondo Z, 2016. Energy efficiency in fishing: Are magnetic devices useful for use in fishing vessels? *Applied Thermal Engineering*, 94: 670-678, doi:10.1016/j.applthermaleng.2015.10.161.
- Mellibovsky F, Prat J, **Notti E.**, Sala A, 2015. Testing otter board hydrodynamic performances in wind tunnel facilities. *Ocean Engineering*, 104: 52-62.
- **Notti E.**, Sala A, 2014. Fuel saving and emission reduction in fisheries: results of the experimentation of a new magnetic device on board fishing vessel. 2014 *Oceans - St. John's, St. John's, NL*, 2014 ISBN 978-1-4799-4918-2. ISSN: 0197-7385: pp. 1-5.

