PUBLICATIONS

Full list of Publications can be accessed at: www.juliafchozas.com/publications/

PhD Thesis

- "Technical and non-technical issues towards the commercialisation of wave energy converters", PhD Thesis (DCE Thesis no. 44), Aalborg University, 2013.

Book

- "Energía undimotriz", Editorial Académica Española, ISBN 978-3-659-02998-1, 2012.

Articles

(2013)

- C. Pérez-Collazo, M. M. Jakobsen, H. Buckland and J. Fernández-Chozas, "Synergies for a wave-wind energy concept", European Wind Energy Conference EWEA 2013, Frankfurt, Germany.
- J. Fernández-Chozas, J. P. Kofoed and N. E. Helstrup Jensen, "An Open-Access COE Calculation tool for Wave Energy Converters – the Danish approach", Proceedings European Wave and Tidal Energy Conference (EWTEC´13), Aalborg, Denmark.
- J. Fernández-Chozas, N. E. Helstrup Jensen, H. C. Sørensen, J. P. Kofoed and A. Kabuth, "Predictability of the power output of three wave energy technologies in the Danish North Sea", International Journal of Marine Energy, Vol. 1 (2013) 84-98.
- J. Fernández-Chozas, J. P. Kofoed, M. M. Kramer and H. C. Sørensen, "Advantages of Combining Offshore Wind and Wave Power – a Real Case Study", Wind Energy International 2013/2014 Yearbook.

(2012)

- J. Fernández-Chozas, N. E. Helstrup Jensen and H. C. Sørensen, "Economic Benefit of Combining Wave and Wind Power Productions in Day-Ahead Electricity Markets," in Proceedings of the 4th International Conference on Ocean Energy (ICOE), Dublin, Ireland.
- J. Fernández-Chozas, J. P. Kofoed, M. M. Kramer and H. C. Sørensen, "Combined Production of a full-scale Wave Converter and a full-scale Wind Turbine - a Real Case Study," in Proceedings of the 4th International Conference on Ocean Energy (ICOE), Dublin, Ireland.
- L. Marquis, M. M. Kramer, J. V. Kringelum, J. Fernández-Chozas and N. E. Helstrup Jensen, "Introduction of Wavestar wave energy converters at the Danish offshore wind power plant Horns Rev 2," in Proceedings of the 4th International Conference on Ocean Energy (ICOE), Dublin, Ireland.
- J. Fernández-Chozas, "Predictability of wave energy and electricity markets", Modern Energy Review, Vol. 4, no. 1, pages 59-61.

(2011)

- J. Fernández-Chozas, N. E. Helstrup Jensen, H. C. Sørensen, J. P. Kofoed and A. Kabuth, "Predictability of the Power Output of Three Wave Energy Technologies in the Danish North Sea", in Proceedings of the 9th European Wave and Tidal Energy Conference (EWTEC´11), Southampton, UK.
- S. Parmeggiani, J. Fernández-Chozas, A. Pecher, E. Friis-Madsen, H. C. Sørensen and J. P. Kofoed, "Performance Assessment of the Wave Dragon Wave Energy Converter Based on the EquiMar Methodology", in Proceedings of the 9th European Wave and Tidal Energy Conference (EWTEC´11), Southampton, UK.

(2010)

- J. Fernández-Chozas, M. Stefanovich and H. C. Sørensen, "Toward Best Practices for Public Acceptability in Wave Energy: Whom, How and When to Address", in Proceedings of the 3rd International Conference on Ocean Energy (ICOE), Bilbao, Spain.
- M. Stefanovich and J. Fernández-Chozas, "Toward Best Practices for Public Acceptability in Wave

Energy: Issues Developers Need to Address", in Proceedings of the 3rd International Conference on Ocean Energy (ICOE), Bilbao, Spain.

- H. C. Sørensen and J. Fernández-Chozas, "The Potential of Wave Energy in the North Sea", in Proceedings of the 3rd International Conference on Ocean Energy (ICOE), Bilbao, Spain.
- J. Fernández-Chozas, H. C. Sørensen and M. Korpås, "Integration of Wave and Offshore Wind Energy in a European Offshore Grid", in Proceedings of the 20th International Symposium of Offshore and Polar Engineering (ISOPE), ISBN 978-1-880653-77-7, Beijing, China.
- M. A. Alves, I. R. Costa, A. J. Sarmento and J. Fernández-Chozas, "Performance Evaluation of an Axysimmetric Floating OWC", in Proceedings of the 20th International Symposium of Offshore and Polar Engineering (ISOPE), ISBN 978-1-880653-77-7, Beijing, China.

(2009)

- J. Fernández-Chozas and H. C. Sørensen, "State of the Art of Wave Energy in Spain", IEEE 3rd Annual Electrical Power and Energy Conference (EPEC), Montreal, Canada.

Reports

- J. Fernández-Chozas, J. P. Kofoed and N. E. Helstrup Jensen, "Quick-Start User guide – COE Calculation tool for Wave Energy Converters", Aalborg University. Project PSO 12135, 2014.
- J. Fernández-Chozas, J. P. Kofoed and N. E. Helstrup Jensen, "User guide – COE Calculation tool for Wave Energy Converters", DCE Technical report 161, Aalborg University. Project PSO 12135, 2014.
- J. Fernández-Chozas, H. C. Sørensen and J. P. Kofoed, "Predictability and Variability of Wave and Wind - Wave and Wind Forecasting and Diversified Energy Systems in the Danish North Sea", DCE Technical report 156, Aalborg University. Spok ApS. Final project report Energinet.dk Project PSO 10791. 2013.
- I. Le Crom, A. Pecher, S. Parmeggiani and J. Fernández-Chozas, "Performance characterisation. Full-scale and prototype plants", Deliverable 29 of Wavetrain2 Project, Case studies development, Work Package 5, 2012.
- A. Raventos and J. Fernández-Chozas, "Development of case studies. Public policies and socio-economic and environmental impacts", Deliverable 28 of Wavetrain2 project, Case studies development, Work Package 9, 2012.
- J. Fernández-Chozas, "Development of case studies. Wave resource and forecast", Deliverable 26 of Wavetrain2 Project, Case studies development, Work Package 7, 2012.
- J. Fernández-Chozas, H. C. Sørensen and J. P. Kofoed, "Interim project report: Analysis of Power Output Predictability of Wave and Wind" to Energinet.dk, PSO project 10791, 2012.
- H. C. Sørensen, E. Friis-Madsen, N. Rousseau and J. Fernández-Chozas, "Pre-feasibility Studies. Case study: Horns Rev, Denmark", "Pre-feasibility Studies. Case study: North Sea, Denmark", "Pre-feasibility Studies. Case study: Wales, UK", Deliverables on case studies to the Waveplam project, 2011.
- A. Raventos and J. Fernández-Chozas, "Tools and database development. Public policies and socio-economic and environmental impacts", Deliverable 19 of Wavetrain2 project, 2011.

Other articles, interviews and dissemination

- Press note on PhD Defence and main results, NordJyske newspaper, July 2013.
- Interview: "Sobre la energía de las olas" by Isabel Macías Núñez, Blog (betiquismiquis.wordpress.com), 2012.
- Interview: "Meet an Industrial PhD student", Annual Brochure of the Dept. of Civil Engineering Aalborg University, 2012.
- Interview: "Me sorprende que aún no se haya aprovechado la energía de las olas", by Judith Martínez, MagazinE, La Vanguardia, 16th October 2011.
- J. Fernández-Chozas, "Public Perception of Wave Energy", Waveplam project Newsletter, Issue 6, 2010.
- N. Rousseau, H. C. Sørensen and J. Fernández-Chozas, "Response to ENTSO-E consultation: research and development plan EUROGRID 2020", EU-OEA, February 2010.

ORAL PRESENTATIONS, LECTURES AND POSTER PRESENTATIONS

Oral presentations

(2013)

- "An Introduction to Changing the Game", INORE 7th Annual Symposium, Wales, UK.
- "An Open-access Cost of Energy Calculation Tool for Wave Energy Projects: The Danish Case", HMRC 4th Annual Economic and Finance Forum, Cork, Ireland.
- "Are waves only good for surfing? An introduction to wave power," Energy Mondays series, Energy CrossRoads, Copenhagen, Denmark.
- "Technical and non-technical issues towards the commercialisation of wave energy converters", Public PhD Defence and Discussion, Aalborg, Denmark.

(2012)

- "Economic Benefit of Combining Wave and Wind Power Productions in Day-Ahead Electricity Markets," 4th International Conference on Ocean Energy (ICOE), Dublin, Ireland.
- "Issues towards commercialisation of wave technologies" Final Wavetrain2 Conference, Gran Canaria, Spain.

(2011)

- "Empowering Electricity from the Ocean: a Marie Curie Partner and Fellow Testimony", Conference of the European Association for International Education, EAIE, Copenhagen, Denmark.
- "Predictability of the Power Output of Three Wave Energy Technologies in the Danish North Sea", 9th European Wave and Tidal Energy Conference (EWTEC´11), Southampton, UK.
- "Wave energy power output predictability and variability", Wavetrain2 meeting, École Central de Nantes, France.

(2010)

- "Toward Best Practices for Public Acceptability in Wave Energy: Whom, How and When to Address", 3rd International Conference on Ocean Energy (ICOE), Bilbao, Spain.
- "Integration of Wave and Offshore Wind Energy in a European Offshore Grid", 20th International Symposium of Offshore and Polar Engineering (ISOPE), Beijing, China.

(2009)

- "State of the Art of Wave Energy in Spain" International Workshop on Future Marine Renewable Energy in Andalusia, Cádiz, Spain.

Lectures

(2014)

- Facilitator of "ENSIGHT Game" DONG Energy, Fredericia.
- "Introduction to wave theory, wave power and wave energy converters" in the Master Course Renewable Energy Systems, DIS (Danish Institute for Studies Abroad), Copenhagen.
- "International Experiences in Wave Energy" and "The COE Calculation Tool" in All-Island Master in Marine Energies (Cork, Irlanda).

(2013)

- Facilitator of "ENSIGHT Game" and "Changing the Game" at DIS, DONG Gentofte and DONG Teknologiskebyen, Copenhagen.
- "Introduction to wave theory, wave power and wave energy converters" in the Master Course: Renewable Energy Systems, DIS (Danish Institute for Studies Abroad), Copenhagen.

(2012)

- "Wave Energy: introduction, resources and concepts" Bachelor level, Aalborg University, Aalborg.
- "Wave Energy: introduction, resources, concepts and assessment of performance", Master level, Aalborg University, Aalborg.
- "Når bølgerne går højt- Bølgekraft som energikilde", High School level, Viborg Tecnichal High School, Viborg.
- "Performance Evaluation based on Real Sea Testing", Industry level, Fundación Jorge Juan, Madrid.
- "Economic Assessment of Wave Energy Devices", Industry level, Fundación Jorge Juan, Madrid.
- "Wave Energy in Spain", Industry level, Fundación Jorge Juan, Madrid.

(2011)

- "Wave Energy", Bachelor level, Aalborg University, Aalborg.
- "Resource Assessment" Master level, Aalborg University, Aalborg.

(2010)

- "Wave Energy fundamentals - Theory and Practice", High School level, Aalborg University, Aalborg.
- "Performance evaluation of wave energy concepts", Master level, Aalborg University, Aalborg.
- "Integration of wave energy into the grid", Master level, Aalborg University, Aalborg.

Poster presentations

(2013)

- "An Open-Access COE Calculation tool for Wave Energy Converters – the Danish approach," European Wave and Tidal Energy Conference (EWTEC´13), Aalborg, Denmark.

(2012)

- "Combined Production of a full-scale Wave Converter and a full-scale Wind Turbine - a Real Case Study," 4th International Conference on Ocean Energy (ICOE), Dublin, Ireland.
- "Co-production of wave and wind power and its integration into electricity markets. Case study: Wavestar and 525 kW wind turbine" 6th INORE Annual Symposium, Thisted, Denmark.
- "Floating Wind Turbine Challenge", European Wind Energy Conference EWEC2012, Copenhagen, Denmark.

(2011)

- "Predictability and Variability of the Power Output of Selected Wave Energy Converters", 5th INORE Annual Symposium, Alcoutim, Portugal.

(2010)

- "Toward Best Practices for Public Acceptability in Wave Energy: Issues Developers Need to Address", 3rd International Conference on Ocean Energy (ICOE), Bilbao, Spain. - ICOE2010 Best poster award.
- "Analysis of Non-technical and Technical Issues related to Wave Energy Development", Wavetrain2 mid-term project meeting, Trondheim, Norway.

(2009)

- "State of the Art of Wave Energy in Spain", IEEE 3rd Annual Electrical Power and Energy Conference (EPEC), Montreal, Canada.
- "Wave energy. Non-technical barriers", 3rd INORE Annual Symposium, Gent, Belgium.

OTHER COMPLEMENTARY ACTIVITIES

Supervision

- Partial supervision to L. Craig, A. Samuell and B. Okuhata for the final essay of the Master Course: Renewable Energy Systems, titled "An Ocean of Energy: the Wave Dragon", 2013.
- Partial supervision to C. Leupolt, MSc. Thesis: "Prediction of waves in Hanstholm and Nissum Bredning by applying an artificial neural network", Aalborg University, 2013.
- Partial supervision to M. Fernández Pérez, MSc. Thesis: "A comparative study of wave power generation concepts", DTU, 2012 and 2013.
- Partial supervision to R. Jul Sørensen, MSc. Thesis: "Havenergi og bølgekraftanlæg: et dansk-spansk terminologispeciale", Copenhagen Bussiness School, 2010.

Successful project's applications writing

- Project title: "Capacity Credit of Wave and Solar PV", Application to Energinet.dk-PSO-ForskEL, Denmark, 2013.
- Project 'Synergies for a wave-wind energy concept', ICIS application (International Collaborative Internship Scheme) with Carlos P. Collazo (Univ. Plymouth), Hannah Buckland (Univ. Liverpool) and Morten Jakobsen (Univ. Aalborg), 2013.
- Project title: 'Development of a joint Economic, Carbon & Energy open-access model for wave energy', ICIS application (International Collaborative Internship Scheme) with Camilla Thomson (Univ. Edinburgo), 2013.
- Project title: "The COE Calculation tool for WECs – Improvement and Dissemination", Application to Energinet.dk-PSO-ForskEL, Denmark, 2013.
- Project title: "Analysis of Power Output Predictability of Wave and Wind", Application to Energinet.dk-PSO-ForskEL, Denmark, 2011.
- Project title: "Design and Feasibility Study for a Wave Dragon North Sea Demonstrator", EUDP application, Denmark, 2011.
- Project title: 'Wave energy: toward best practices for public acceptability', ICIS application (the International Collaborative Internship Scheme). Project with M. Stefanovich, INORE, 2009.

ATTENDED COURSES

Entrepeneurship courses

Oct. 2013 "Regnskab for begyndere" (accountancy for beginners)

May 2013 "Copenhagen Business Mentor program: An Introduction to mentees and mentors"

May 2013 "Budgeting and Financing"

April 2013 "Start Here - Doing Business in Denmark"

Sept 2013 **ENSIGHT**

Training Course to become a facilitator of the ENSIGHT game. It has been developed by DONG Energy to learn about electricity markets.

Mar 2013 **DTU - Risø**, Marinet project.

"Offshore wind measurement techniques" and "Remote sensing for offshore wind".

Dec 2011 **Edinburgh Business School**, Heriot-Watt University, MBA programme

Finance Course: 20 ECTS, Excellent grade.

Wavetrain2 Project Courses

Feb 2012 "Socio-economic impacts of offshore renewables" (2 ECTS), Wave Energy Centre, Gran Canaria, Spain.

Nov 2011 "Environmental impact assessment and licensing and environmental monitoring", and "Electrical issues in wave energy farms" (3 ECTS), Wave Energy Centre, Orkney Islands, UK.

July 2011 "Electrical and mechanical power take-offs and wave energy implementation" (2 ECTS), Queens University Belfast, Portaferry, Northern Ireland, UK.

Jan 2011 "Numerical Modelling of Wave Energy Converters" (3 ECTS), École Central de Nantes, Nantes, France.

June 2010 "Ocean Wave Energy Fundamentals" (4 ECTS), NTNU, Trondheim, Norway.

Sept 2009 "Wave energy realities" (3 ECTS), Wave Energy Centre, Pico Island, Portugal.

June 2009 "Physical modelling and monitoring of wave energy converters" (3 ECTS) Hydraulic Maritime Centre (HMRC), University College Cork, Cork, Ireland.

PhD Courses

May 2011 Advanced Control Theory for Wave Energy Utilization (3 ECTS), Dept. Civil Engineering of Aalborg University.

March 2011 Intellectual Property Rights (2 ECTS), Faculty of Eng. and Science of Aalborg University.

Nov 2010 Power Electronics and Renewable Energy Systems (4 ECTS), Dept. of Energy Technology of Aalborg University.

May 2010 Advanced Energy System Analysis of the EnergyPLAN Model (3 ECTS), Dept. of Planning and Development of Aalborg University.

BEST (Board of International Students of Technology) Courses

Oct 2008 Engineering Competition, (4 ECTS) Tallinn, Estonia.

Aug 2008 "Shipping on a green wave", (4 ECTS) NTNU, Marintek, Trondheim, Norway.

March 2008 "Smart and passive houses", (4 ECTS) Ljubljana, Slovenia.