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# NEWSLETTER

Centro de Recursos Naturais e Ambiente

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## Development of EO indicators for the Dynamic of Desertification in Southern Africa



CERENA won a new project Alcantara Program, funded by ESA – European Spatial Agency.

Development of EO indicators for the Dynamic of Desertification in Southern Africa.

This is a one year project involving a partnership with ISEGI, Mondelane U. and U. DELFT.

The aim of this project is the analysis of new dynamics of desertification in the region Southern Africa ( Mozambique , Zimbabwe and Northern part of South Africa ) by using and implementing the main achievements of the DW –E, a methodology developed by CERENA and a standard processing chain over Earth Observation data, in order to produce desertification indicators, allowing the monitoring of areas subject or in risk of desertification.

A second objective is to propose new methods for integration of EO data with different spatial and spectral resolutions, namely the new ESA Proba- V mission with products ranging in spatial resolution from 100m to 1km , and new field data in particular the survey and risk map of natural disasters made between 2010 and 2011 for Mozambique.

## The EIP on Raw Materials High Level Conference and the Horizon 2020 Brokerage Event

EUROPEAN INNOVATION PARTNERSHIP ON  
**RAW MATERIALS**  
ANNUAL CONFERENCE &  
HORIZON 2020 BROKERAGE EVENT  
13 – 14 January 2015



The EIP on Raw Materials High Level Conference and the Horizon 2020 Brokerage Event on Raw Materials took place on the 13 and 14th January 2015, in Brussels.

During the meeting some of the Raw Materials Commitments and Projects approved in 2014 were presented.

The aim of the Brokerage Event was to enhance the opportunities for potential partner's knowledge and networking. A presentation of CERENA was made by Teresa Carvalho.

Informations about the events and the presentations can be seen in <http://ec.europa.eu/eip/raw-materials/en/content/eip-raw-materials-high-level-conference-and-horizon-2020-brokerage-event-raw-materials>

## **CERENA's Seminar on January 8th, at 14:30 in PA1 (Alameda)**

### **"THE OIL INDUSTRY- AN EXCELLENT GLOBAL CAREER OPPORTUNITY"**

By Alan S. Phelps

A practical and concise overview of the Petroleum Industry, touching on mainly the well drilling processes and also careers and areas of opportunity for engineers. The main objective is to raise the profile of this industry for Engineers graduating in Portugal as being an interesting, challenging and rewarding profession. Slides and Videos from the presentation are available on request to [juliar@tecnico.ulisboa.pt](mailto:juliar@tecnico.ulisboa.pt)

## Paper Published

### [Seasonal patterns of Mediterranean evergreen woodlands \(Montado\) are explained by log-term precipitation](#)

Ramos, A., Pereira, M. J., Soares, A., do Rosário, L., Matos, P., Nunes, A., Branquinho C., Pinho, P. (2015). Seasonal patterns of Mediterranean evergreen woodlands (Montado) are explained by long-term precipitation. *Agricultural and Forest Meteorology*, 202, 44-50. doi:10.1016/j.agrformet.2014.11.021

## Book Chapters Published

### [Contaminação de águas subterrâneas: avaliação de vulnerabilidade em uma bacia hidrográfica transfronteiriça ibérica](#)

Albuquerque Teresa; Antunes Margarida; Seco Fátima (2015), Contaminação de águas subterrâneas: avaliação de vulnerabilidade em uma bacia hidrográfica transfronteiriça ibérica, Lourenço, Luciano, ed. lit. Imprensa da Universidade de Coimbra: [s.n.], Cap. Livro: Multidimensão e territórios de risco ISBN 978-989-96253-3-4 (PDF), DOI: [http://dx.doi.org/10.14195/978-989-96253-3-4\\_144](http://dx.doi.org/10.14195/978-989-96253-3-4_144).

### [Mapeamento da probabilidade de contaminação em arsénio numa área mineira abandonada \(centro de Portugal\), usando a krigagem da indicatriz](#)

Margarida Antunes, Teresa Albuquerque, 2015, Mapeamento da probabilidade de contaminação em arsénio numa área mineira abandonada (centro de Portugal), usando a krigagem da indicatriz, Lourenço, Luciano, ed. lit. Imprensa da Universidade de Coimbra: [s.n.], Cap. Livro: Multidimensão e territórios de risco, ISBN 978-989-96253-3-4 (PDF), DOI: [http://dx.doi.org/10.14195/978-989-96253-3-4\\_86](http://dx.doi.org/10.14195/978-989-96253-3-4_86).

## PhD Defense



Last January, 12 João Dionísio Sousa defended his PhD thesis at IST with the title “Intensificação da Produção da Anilina- Estudo Cinético da Hidrogenação do nitrobenzeno”

Supervisors: Clemente Pedro Nunes, Filipe Gama Freire, Nuno Oliveira (FCT\_UCoimbra), Paulo Araújo (CUF).

More Information [here](#).