



## Workshop on Observations in Atmospheric and Water sciences Alqueva, 22 – 25 July 2014

*Informations and inscriptions: <http://www.alex2014.cge.uevora.pt/>*

| AGENDA<br>(Draft)    | <i>ALEX2014 Workshop on Observations in Atmospheric and Water Sciences</i>                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>22 July</b>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>10:00 - 10:30</b> | Rui Salgado and Miguel Potes<br>Welcome Session: Introduction to ALEX 2014 Experiment and Workshop.<br>Organization of work groups                                                                                                                                                                                                                                                                                                                  |
| <b>10:30 - 13:00</b> | Participation in the Field campaign activities<br><br>Visit to the ALEX site in the EDIA Solar Park: <ul style="list-style-type: none"> <li>• <b>Measurements of solar radiation, including DNI with a solar tracker.</b> Paulo Canhoto</li> <li>• <b>Radiação e Caracterização de Constituintes Atmosféricos.</b> Maria João Costa, Daniele Bortoli e Sérgio Pereira</li> <li>• <b>Launch of the first ALEX meteorological Balloon.</b></li> </ul> |
| <b>13:00 - 15:00</b> | Lunch and Siesta                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>15:00 - 15:45</b> | Pedro Miranda<br><i><b>From the regional climate impact of the Alqueva reservoir to global change</b></i>                                                                                                                                                                                                                                                                                                                                           |
| <b>16:00 - 17:45</b> | Giles Harrison and Keri Nicoll<br><i><b>Instrumentation for fair weather atmospheric electricity</b></i>                                                                                                                                                                                                                                                                                                                                            |
| <b>18:00 - 18:45</b> | Susana Barbosa<br><i><b>Geophysical radon monitoring</b></i>                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>19:00 - 21:00</b> | Dinner time                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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| 21:00             | Debate with the population of Alqueva and Amieira villages about the climate effects of the Alqueva reservoir (in Portuguese) /<br><b><i>Debate com a população da Freguesia de Amieira e Alqueva sobre os efeitos da albufeira no clima</i></b><br>com Rui Salgado (CGE / U. Évora), Pedro Miranda (IDL / U. Lisboa), Ana Ilhéu (EDIA), Carlos Miranda Rodrigues (ICAAM / UE), Carlos Policarpo (BASE Aérea nº 11 de Beja) e Mauro Henriques (Presidente da União de Freguesias de Amieira e Alqueva) |
| <b>23 July</b>    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 00:00 - 8:00      | Launch of meteorological balloons: ONLY for volunteers                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Morning           | <b><i>Field campaign activities</i></b><br>Biological team.<br>Visit to the floating platform:<br>sample collection, vertical profiles of physical, chemical and biological parameters. Manuela Morais, Helena Novais e António Serafim.<br>Eddy correlation system for flux measurements. Rui Salgado e Miguel Potes;<br>Spectral measurements of underwater downwelling radiance. Miguel Potes                                                                                                       |
| 12:30 - 15:00     | Lunch and siesta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 15:00 - 16:30     | Manuela Morais and Helena Novais<br><b><i>Measuring vertical profiles in reservoirs: physical and chemical variables</i></b>                                                                                                                                                                                                                                                                                                                                                                           |
| 16:45 - 17:45     | Cláudia Brandão<br><b><i>Hydro-meteorological in extreme situations</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 18:00 - 19:30     | Manuela Morais and Amely Zavattieri<br><b><i>Remediation strategies in South Portugal reservoirs</i></b>                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>24 July</b>    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 00:00 - 8:00      | Launch of meteorological balloons: ONLY for volunteers                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Morning           | <b><i>Field campaign activities</i></b><br>Visit to Amieira Marina ALEX site:<br>Air Quality. Paulo Beliche<br>Radon measurements. Susana Barbosa e Francisco Lopes<br>Atmospheric electricity. Hugo Silva<br>GPS site. André Sá e João Apolinário<br>Automatic Weather Station. Rui Salgado                                                                                                                                                                                                           |
| 13:00 - 15:00     | Lunch and Siesta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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| <b>15:00 - 16:00</b>      | David Faiman<br><b><i>Challenges to employing photovoltaics on a very large scale</i></b>                                                                  |
| <b>16:30 - 18:00</b>      | Patrick Le Moigne<br><b><i>Surface - Atmosphere interactions: measurements and modelling</i></b>                                                           |
| <b>20:00</b>              | Workshop Dinner and social event                                                                                                                           |
| <b>25 July</b>            |                                                                                                                                                            |
| <b>00:00 - 8:00</b>       | Launch of meteorological balloons: ONLY for volunteers                                                                                                     |
| <b>10:00 - 11:30</b>      | Ana Ilhéu and Martinho Murteira<br>Visit to the EDIA interpretation Center;<br>Talk: <b><i>Environmental Management of the Alqueva-Pedrogão System</i></b> |
| <b>11:30 - 13:00</b>      | André Silva<br>Visit to the Alqueva Hydro Power Plant;<br>Talk: <b><i>Electro-Mechanical Components of the Alqueva Hydro Power Plant</i></b>               |
| <b>13:00 - 15:00</b>      | Lunch and siesta                                                                                                                                           |
| <b>15:00 - 16:00</b>      | Maria João Costa, Daniele Bortoli and Sérgio Pereira<br><b><i>Characterization of the atmosphere using remote sensing techniques</i></b>                   |
| <b>16:00 - 17:00</b>      | André Sá<br><b><i>The role of GNSS data for meteorological purposes</i></b>                                                                                |
| <b>17:00</b>              | Bye Session                                                                                                                                                |

**Organization:**

**ALEX project,**

**Lisbon Doctoral School on Earth System Science**

**Geophysics Centre of Évora (University of Évora)**

**Doctoral Program on Earth and Space Sciences (University of Évora)**

**Organizing Committee:**

Rui Salgado, Pedro Miranda, Pedro Soares, Manuela Morais, Maria João Costa and Miguel Potes

**Sponsors:**

