

International Student Exchange 2016 – 2019

Student Feedback Questionnaire

The purpose of this questionnaire is to evaluate the lessons learned of the AIR international student exchange.

By filling out this feedback report, you agree that your picture and experience will be published on the homepage of the AIR project. <http://www.air-project.org/>

Name of student:	Alberto Julião Macamo
Gender:	M
Age:	56
Hosting university:	Stellenbosch University
Sending university:	Eduardo Mondlane University (UEM)
Period of exchange:	29 August – 3 September 2016
Field of study/major:	BioEnergy
Field of interest during exchange:	Biofuels- Jatropha curcas L.
Further graduation plans (e.g. PhD program):	Production and use Sustainable of Biodiesel from JCL

Please tick the appropriate box	I strongly agree	I agree	I neither agree nor disagree	I disagree	I strongly disagree
Program					
I gained insights into the practical implementation of RE in the host country (sight visits etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I gained knowhow in field of my study	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The courses were helpful for my further research	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The agenda was well structured	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Organization					
The journey preparations were well organized	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The support during the exchange was good	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The post processing of the exchange was well organized	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The reimbursement process was satisfactory		X			
The accommodation was pleasant		X			
Local transportation was well organized		X			
I socialized with local students		X			
I recommend the exchange	X				
Others:	<p>What would you like to be changed/ be improved for the future?</p> <p>To extend the length of the course for a maximum of 2 weeks. Plan better the precise locations of interest</p> <p>Did you experience any difficulties during your exchange?</p> <p>Yes, been linked to the material and the insertion in the group, because the invitation was formulated late and couldn't make the regular registration</p>				

From 28 August to 10 September 2016 under the students exchange program between the universities of Project AIR (Academic Initiative for Renewable), a visit of interaction and participation in the course of Sustainable Bio-energy given in the Institute of 29 August to 03 September 2016 and 03 - 09 September 2016 visit institutions and research laboratories in renewable energy and sustainable.

1. The course offered the following approaches:

Bio-energy Sustainability; Biomass Production; Biological Conversion e Thermo-chemical and Waste to Energy

Expected skills:

- Develop and evaluate project proposals on bioenergy production, taking into account the technical issues, economic viability and sustainability;
- Have a conceptual understanding of conversion technologies for the production of bioenergy and biofuels, including biodiesel, biogas, ethanol fermentation, combustion, pyrolysis, gasification and power generation;
- Perform a critical analysis of the sustainability of bioenergy production, with an emphasis on practical, innovative solutions and sustainable.

The course was instructed by professors at the University of Stellenbosch and some invited experts in the field of renewable and sustainable energies. The knowledge imparted was emotional will allow to show the horizon of renewables for economic and social sustainability for a better contribution to the country in general. The knowhow acquired will enrich the vision to better develop my thesis of doctorate in particular the production and biofuel conversion of vegetable oils.

2. Industry visits

During the course I had the opportunity to visit a gas production industry, using the trash (fruit and vegetable waste), also the conversion of biomass (charcoal) into electrical energy.

I visited the system of solar panels mounted on top of the mechanical engineering building which Centre for Renewable and Sustainable Energy Studies of the University of Stellenbosch. In this lab a water heating system, an electric power generation system (using converters and batteries-batteries), thermal sources and among other sustainable energy transformation systems were installed.

There was also the opportunity to visit the Campus P. University of Technology. I visited the pumping system and heating water with solar energy. The portfolio is mounted so as to allow the irrigation of a small vegetable garden. This is an interesting and simple fact. According to the students the tests are carried out in the surrounding communities of the University on its implementation and validation of the system and has had a lot of grip on the part of some populations with power to purchase solar panels, batteries and other auxiliary components.

Finally, we had the time to visit SARETEC in the company of Professor Nawaz Mahomed who was one of the managers at CPUT. The SARETEC is dedicated to technical training and material production farms.

3. Conclusion

The participation in the course of Bio-energy and the views made to places of scientific interest elucidated how much biomass can contribute to reducing the demand for fossil fuels. As well as contributing to sustainable development of countries with natural resources. The course has enriched the knowledge about use and transformation of natural resources for electricity, transport and food production and critical analysis of the sustainability of biomass.

Please add a picture of you during your stay at the partner university (you together with local partners at the university/excursion)



Roof Lab CRSES-Stellenbosch

