



Hungary-Romania
Cross-Border Co-operation
Programme 2007-2013

Two countries, one goal, joint success!

European Union
European Regional Development Fund



INVITATION

We are pleased to invite you to attend on the Closing Conference Event organized within the project **"A new method and system for real time monitoring fermentation process"** (HU-RO BIOETHANOL, HURO code 1001/121/2.2.2), **on 21th Octomber 2013, starting at 10:00 at Hotel Ramada Oradea.**

The project is coordinated by the University of Oradea, as project leader and by Bay Zoltán Nonprofit Ltd. Institute for Biotechnology as project partner in the CBC Program Hungary - Romania 2007-2013.

Project **"A new method and system for real time monitoring fermentation process"** has the overall objective of developing a new method and an innovative system that uses optical biosensors for real-time monitoring of carbohydrate hydrolysis and ethanol fermentation during ethanol production and wine.

We would be honored by your presence.

Please confirm your participation on e-mail: alinacaraban@yahoo.com

Venue: Hotel Ramada Oradea, Arad Way, No.9, 410223

Attached you have the event agenda.

Sincerely,

Prof. Dr. Eng Caraban Alina Maria

Project Manager

Oradea,

01.10. 2013

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***A new method and system for real time fermentation process
monitoring HURO 1001/121/2.2.2***

Acronym: HU-RO BIOETHANOL

**WORKSHOP
21 October 2013 - Oradea**

Parteners:

- University of Oradea – Romania, Project Leader – L P
- Bay Zoltán Nonprofit Ltd. Institute for Biotechnology Szeged, Hungary
– Project Partener – PP1

Conference room– Hotel Ramada Oradea

Conference's Official Language: Romanian, with translation in
Hungarian

AGENDA OF THE EVENT

Monday– 21 October 2013	
09:30 – 10:00	<i>Registration</i>
10:00 - 11:45	<i>Workshop opening</i> <i>Cornel Popa</i> – President of the Bihor County Council <i>Mircea Mălan</i> – Vice Mayor of Oradea City <i>Sanda Monica Filip</i> - Dean of the Faculty of Sciences Oradea <i>Aurel Vasile Căuș</i> – Chancellor of the Senate of the University of Oradea <i>Cărbăban Alina Maria</i> – Project Manager <u>Prezentations - part I</u> 1. Presentation of the Research Project HURO 1001/121/2.2.2 „A new method and system for real time fermentation process monitoring - <i>Albu Adina</i> – Visibility expert - 30 min 2. Summary of the results achieved by the Hungarian project partner in Bioethanol project - <i>Dergez Ágnes Karolina</i> , Bay Zoltán Nonprofit Ltd. Institute for Biotechnology Szeged - 30 min



	3. Development of optical CO ₂ sensor for fermentation process monitoring - Ágnes Dergez, Ákos Koós , Bay Zoltán Nonprofit Ltd. Institute for Biotechnology Szeged - 30 min
11:45 - 12:00	Coffee break
12,00 – 13:30	<u>Presentations – part II</u> 4. Bioethanol fermentation monitoring by HPLC - Kiss Julianna Judit, Bay Zoltán Nonprofit Ltd. Institute for Biotechnology Szeged - 30 min 5. Spectrophotometric determination of Alcohol dehidrogenase and Glucooxidase activity in fermentative processes - Filip Monica Sanda, Toderas Adina Monica, Macocian Eugen Victor, Cărăban Alina Maria, University of Oradea - 30 min 6. Application of NGS-based microbial diversity analysis during industrial fermentation processes - Bence Gálik, Bay Zoltán Nonprofit Ltd. Institute for Biotechnology Szeged - 30 min
13:30 – 14:30	Lunch break
14:30 - 18:00	7. Investigation of problematic microorganisms during bioethanol and wine production using molecular biological methods - Péter Antal, Edit Rutkai, PhD, Bay Zoltán Nonprofit Ltd. Institute for Biotechnology Szeged - 30 min 8. Enzyme immobilisation on optical fiber - Bota Sanda Rodica, Cărăban Alina Maria, University of Oradea - 30 min 9. Kinetic studies using optical fiber biosensors for amylase activity in starch hydrolysis - Cărăban Alina Maria, Bota Sanda Rodica, Popa Vasilica, University of Oradea - 30 min 10. Studies using optical fiber biosensor for alcohol concentration determination in fermentation reaction – Bota Sanda Rodica, Țarcă Radu Cătălin, Țarcă Ioan Constantin, University of Oradea - 30 min 11. Studies using FBG sensors for alchohol concentration determination – Țarcă Radu Cătălin, Țarcă Ioan Constantin, University of Oradea - 30 min 12. Sensorial system to monitoring ethanol concentration using neuronal network – Vesseleny Tiberiu, Moldovan Ovidiu, University of Oradea - 30 min Discussion, questions- 30 min.