

Tuesday 9 June 2015

Yesterday's highlights

Yesterday (Monday) morning at 9.15 the SummerSchool started: Antoine Kemperman from the Membrane Technology Group of the University of Twente opened the busy day with a very compact and complete overview of membrane fabrication and characterization.

The morning session was entirely focused on membrane properties. The afternoon was dedicated to Bioartificial Liver applications.



BIOART & friends... Other participants joined the BIOART fellows during the summer school



Summer School participants during the lunch break

What's in store for you today

Today we would like to welcome:
Dr. A. Poot (University of Twente, NL),
Prof C. Legallais (University of Compiègne, FR),
Dr. H. Lemke (Excorlab, DE), Dr. B. Papenburg
(Materiomics B.V., NL). We would like to thank
you all for your participation!

Other announcements:

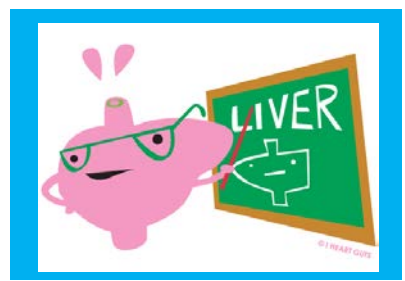
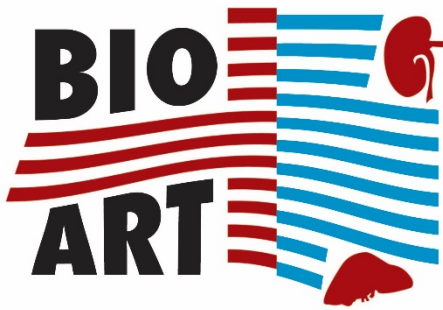
Don't forget to hang on your poster!

You have time during the morning coffee break and lunch time (location: Zuidhorst, Atrium Olive tree. Garden 2 floor 1)

Would you like to go out after dinner?
Join us at 20.00 at the main hall of the Drienerburgh hotel. We hope to see you there ☺



The audience was concentrated until the end of the day..



Science for dummies – The liver

The yesterday afternoon programme was about membranes used for liver repair... but actually, what is the liver function?

- It regulates the composition of blood, including the amounts of sugar (glucose), protein, and fat that enter the bloodstream.
- It removes bilirubin, ammonia, and other toxins from the blood. (Bilirubin is a by-product of the breakdown of haemoglobin from red blood cells.)
- It processes most of the nutrients absorbed by the intestines during digestion and converts those nutrients into forms that can be used by the body. The liver also stores some nutrients, such as vitamin A, iron, and other minerals.
- It produces cholesterol and certain important proteins, such as albumin.
- It produces clotting factors, chemicals needed to help blood clot.
- It breaks down (metabolizes) alcohol and many drugs.

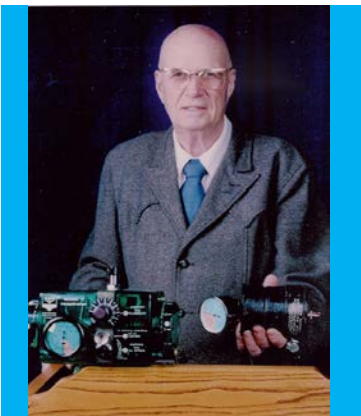
Did you know that...

From the lecture of Professor Robert Chamuleau, we learned that Alcohol (in moderate amounts) was not among the factors leading to an Acute Liver Failure. Therefore the local-Dutch focus of today will be alcoholic based...

The number three most drunk beers in the Netherlands is from Enschede! The 400 years old Grolsch breweries are nowadays located a few meters away from Twente University. And by the way Grolsch is also making intensive use of Ultrafiltration membranes in their production process. This speciality is available in any local facility and also on campus.



Who is Forrest M. Bird?



On 9th June 1921, Forrest M. Bird was born in Stoughton, Massachusetts, USA. He is the inventor and aeromedical scientist who developed the first reliable medical respirator, the Bird Universal Medical Respirator for acute or chronic cardiopulmonary care. He tested it on patients so seriously ill that cardiopulmonary failure was expected, yet many of them survived due to his device—which became known as “the bird.” Bird continued to make improvements. It was widely adopted by hospitals around the world. The “Babybird” respirator introduced in 1970 greatly reduced infant deaths due to respiratory problems.