Short talk about the expected benefits from the conference

I am working in the Hochschild homology under the supervision of Professor Jerry Lodder. The expected title of my thesis is “On the map from the Leibniz to Hochschild homology”.

The topics of the conference are in Topology and its applications. This summer school will be split into two parts. The first part is more introductory to give the graduate students opportunity to recall the most methods and the keywords. The second part will be more advanced.

This event allows me to share the others doing some exercises in the discussion rooms.

There will be a talk by Marco Manetti about Lie theory and algebra which is expected to enrich my work in the thesis with different directions. Also, it is greatly important those topics in Hochschild homology and some related areas. One of the speakers is Jean-Louis Loday, founder of the cyclic homology all over the world.

Finally, it is very interesting to see the advanced research in string topology as a field of topology with the other scientific fields.

Let me give you a short description of my thesis problem:

Let $A = u(g), HH_{(u(g))}$ be known.

1) Compute the Hochschild homology of the universal algebra of the universal enveloping algebra of $g$.

$$HH_{(u(g))}$$

2) Compute the map:

$$HL_{(u(g))} \rightarrow HH_{(u(g))}.$$  

3) Compute the composition:

$$HL_{(u(g))} \rightarrow HH_{(u(g))}.$$