

## **Europlanet Expert Exchange Programme post-visit report**

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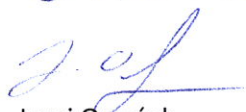
Within the Europlanet Expert Exchange Programme I visited Auburn University in Alabama, USA from June 26<sup>th</sup> to July, 3<sup>rd</sup> 2022, including travel. The aim of the visit was to deepen the existing scientific collaboration and plan future cooperation with the group of prof. Dennis Bodewits. Ms. Barbora Stachová, PhD student at the Comenius University in Bratislava, has participated in the trip as well.

During the visit we have been acquainted with the experimental research performed at the Department of Physics of the Auburn University. We were also introduced to several other faculties at the Auburn University and learned more about their work. The overlap and common interest of the experimental research with Department of Experimental Physics at the Comenius University is extensive and provides many possibilities for further cooperation in the field of molecular physics aimed not only at astrophysical applications.

During the visit we have participated in the colloquium where we introduced the Department of Experimental Physics in Bratislava to other faculties and provided more details on the scientific problems we are currently dealing with within our research. Especially the latest experimental results of small hydrocarbon excitation led to rich discussion and proposal of deeper collaboration in the near future.

Due to the upcoming TA visit of prof. Bodewits and dr. Bromley to the Laboratory of Electron Induced Fluorescence at the Comenius University, we spent considerable time discussing the details of the planned experiments aimed at electron-induced fluorescence of carbon monoxide and carbon dioxide.

The Auburn University is very progressive in using modern teaching methods. The active learning techniques are widely used in classes with students. The university also provides great support to teachers willing to modernize their teaching methods. On the other hand, at the Comenius University majority of physics teaching is done in the traditional "lecture" way. After several discussions with faculties in Auburn they proposed to provide support to us in this field.

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