



Research-related intercultural higher education in satellite geodesy

M. Mayer (1), B. Heck (1), and C.P. Krueger (2)

(1) Geodetic Institute, Karlsruhe University (TH), Karlsruhe, Germany (mmayer@gik.uni-karlsruhe.de), (2) Department of Geomatics, Federal University of Paraná (UFPR), Curitiba, Brazil (ckrueger@ufpr.br)

In order to improve the education of young researchers (master degree, PhD, PostDocs) a cooperation between the Department of Geomatics (DGEOM), Federal University of Paraná (UFPR), Curitiba (Brazil) and the Geodetic Institute (GIK), University Karlsruhe (TH), Karlsruhe (Germany) was established which now exists since more than five years. The joint venture is actually called “PROBRAL: Precise positioning and height determination by means of GPS: Modeling of errors and transformation into physical heights” and focuses on research and education within the field of satellite geodesy. PROBRAL is funded by the Brazilian academic exchange service CAPES and the German academic exchange service DAAD.

The geodetic aim of the research project is to validate and improve the quality of 3d positions derived from observations related to satellite navigation systems like GPS. In order to fulfill this ambitious goal sustainably, research has to be carried out in close cooperation. At the same time, e.g. to guarantee continuous success, a coordinated education has to be ensured. Besides technical education aspects key competences (e.g. language, capacity for teamwork, project management skills) are trained.

Within the presentation the lessons which were learned from this project are discussed in detail.