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### **Dr. Thomas Krings wins doctoral thesis award**

On 29<sup>th</sup> November 2013, an IUP-PhD graduate Dr. Thomas Krings will be awarded the Randstad Professionals Promotionspreis 2013. He is one of two awardees selected by the Fachbereich 1 of the University of Bremen and the Firm Randstad Professionals.

Dr. Krings' graduated with a "summa cum laude" for his dissertation entitled "*Greenhouse gas emission rates estimates from airborne remote sensing in the short-wave infrared*". In his thesis, Dr. Krings successfully applied evaluation methods for analyzing airborne measurements of two major greenhouse gases CO<sub>2</sub> and methane (CH<sub>4</sub>). He developed an "inversion method" to interpret the resulting data, which quantifies for the first time the CO<sub>2</sub> and CH<sub>4</sub> emissions of major sources (such as power-generating plants and coal mines) using airborne acquired data. Results of his dissertation have been published in several peer-reviewed scientific journals.

Aside from working on his dissertation, Dr. Krings has been actively involved in teaching at the Fachbereich 1 as well as in several field campaigns. His research involving airborne measurements has been a valuable contribution to the primary concerns of the Institute of Environmental Physics and the University of Bremen, in general, as well as to Bremen's aerospace industry, particularly in the development of new satellite missions. One example is the mission proposal CarbonSat, which has been selected by ESA as one of two candidate missions (out of 30 submitted proposals) projected to be launched by the year 2020. A big part of this success is accredited to Dr. Krings.