



DVW Berlin-Brandenburg e.V.
- Gesellschaft für Geodäsie,
Geoinformation und Landmanagement -



Technische Universität Berlin
Institut für Geodäsie und
Geoinformationstechnik

Einladung zum geodätischen Kolloquium
des DVW Berlin-Brandenburg e.V.
und des Instituts für Geodäsie und Geoinformationstechnik
der TU Berlin

Es spricht:

Dr.-Ing. Detlef Angermann

Deutsches Geodätisches Forschungsinstitut, München

zum Thema

**Realizations of terrestrial reference system:
Status and new developments**

Abstract:

Terrestrial reference systems and their realizations are fundamental requisits for measuring the surface structure, the rotation and gravity field of the Earth, along with their variations in time. Terrestrial reference frames provide the basis for many practical applications, such as national and regional networks, engineering, precise navigation, geoinformation systems as well as for scientific investigations in the Earth's system and for monitoring of Global Change phenomena. The realizations are computed from a combination of solutions derived from space geodetic observation techniques (VLBI, SLR, GPS, DORIS), which have made an enormous progress in precision and accuracy in the last years. However, to fully exploit the high potential of these observations, the underlying reference frames must be realized with highest accuracy, consistency and stability over decades (e.g., for a reliable and sustainable estimation of global sea level change).

This presentation gives an overview about the basic concepts and the procedures for the realization of terrestrial reference systems. It briefly summarizes the historical developments and presents results of the latest realization, the International Terrestrial Reference Frame 2008 (ITRF2008). The current status is discussed and illustrated by results of the latest computations. Finally, future challenges and new developments are presented.

Ort: Technische Universität Berlin
Institut für Geodäsie und Geoinformationstechnik
Hörsaal H6131, Straße des 17. Juni 135

Zeit: Donnerstag, den 10. Mai 2012 um 17:00 Uhr s.t.

Als Gäste sind ausdrücklich auch Nichtmitglieder herzlich eingeladen.

Zum weiteren fachlichen Austausch mit dem Vortragenden findet im Anschluss ein Post-Kolloquium im Restaurant „Capital-City“, Otto-Suhr-Allee 13 (nahe Ernst-Reuter-Platz), statt.