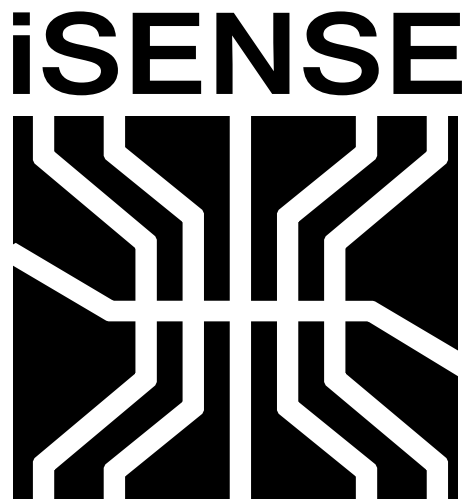


Geodesy with Inertial Quantum Sensors

Programme



**Symposium and Workshop
June 9-12, 2012
Neues Rathaus Hannover, Gartensaal**

**Programme: K. Bongs and E.M. Rasel
Local organisation: E. Hünitzsch, K. Pfennig, M. Popp, A. Göldner-Pauer**

Conference Schedule

Time	Saturday, 9th	Sunday, 10th	Monday, 11th	Tuesday, 12th
9:00		Keynotes: Geodesy I	Workshop Talks: Gravimetry	Workshop Talks: Atomic Inertial Sensors
10:00		Coffee & Tea	Coffee & Tea	
11:00		Keynotes: Geodesy II	Workshop Talks: Gravity & Relativity	Workshop Talks: Future Technologies
12:00		Lunch	Lunch	Lunch
13:00				Lab Tours: IQ & QUEST
14:00		Keynotes: Inertial Quantum Sensors I	Discussion Groups: Present & Future Inertial	Departure
15:00		Coffee & Tea	Coffee & Tea	
16:00			Lab Tours: Geosciences	
17:00	Arrival & Welcome	Keynotes: Inertial Quantum Sensors II		
18:00			Social Evening	
19:00	Dinner	Conference Dinner		

Conference office:

Saturday to Tuesday:

Elke Hünitzsch:
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Detailed Programme

June 9th - Welcome evening

17.00 Arrival and Welcome

19.00 Dinner at Gartensaal

June 10th - Symposium

09.00 Welcome

09.15 Keynotes: Geodesy I

J. Flury (Leibniz University Hannover):

*Satellite based Gravimetry with GRACE
and GRACE Follow-on*

L. Timmen (Leibniz University Hannover):

Absolute Gravimetry

10.30 Coffee and Tea

11.00 Keynotes: Geodesy II

C. Champollion (University of Montpellier):

*Field gravity measurements for geosciences applications:
from mapping to temporal variations*

U. Schreiber (Geodetic Observatory Wettzell):

Rotation Sensing with Lasers

12.30 Lunch

14.00 Keynotes: Inertial Quantum Sensors I

J. Hogan (Stanford University):

State-of-the-art in atom interferometry

F. Pereira dos Santos (CNRS-SYRTE, Paris):

The LNE-SYRTE atom gravimeter

15.30 Coffee and Tea

16.00 Keynotes: Inertial Quantum Sensors II

B. Desruelle (μ Quans, Bordeaux):

Transportable Atom Gravimeter

K. Bongs (University of Birmingham):

iSense: Sensing gravity with guided atom interferometer

H. Ahlers (Leibniz University Hannover):

Chip based Quantum Gravimeter

19.00 Conference Dinner at Gartensaal

June 11th - Workshop I

9.00 Workshop Session: Gravimetry

M. Schilling (QUEST, Hannover)

Overview on Absolute- and Relative Gravimetry

J. Lautier (CNRS-SYRTE, Paris)

MINIATOM: Realisation of a Compact Atomic Absolute Gravimeter

10.30 Coffee and Tea

11.00 Workshop Session: Gravity and Relativity

D. Schippert (Leibniz University Hannover)

Towards Testing General Relativity with a dual species interferometer

S. Bize (CNRS-SYRTE)

Atomic clocks and their applications relating to the Earth gravity field

12.30 Lunch

14.00 Discussion Group :

Present and Future Inertial Sensors

15.30 Coffee and Tea

16.30 Lab Tours @ Geosciences Hannover

18.00 Social Evening

June 12th - Workshop II

9.00 Workshop Session: Atomic Inertial Sensors

G. Tackmann (Leibniz University Hannover)

Large area Sagnac interferometer based on laser-cooled atoms

T. Valenzuela Salazar (University of Birmingham)

GG-TOP: A Multidisciplinary Atom Interferometry Project

10.30 Coffee and Tea

11.00 Workshop Session: Future Technologies

C. Kürbis (Ferdinand-Braun-Institut, Berlin)

Micro-integrated laser modules for precision quantum optical experiments

S. Dörscher (University of Hamburg)

A Versatile System to Produce Ultracold Ytterbium

12.30 Lunch

13.30 Lab tours @ IQ and QUEST

15.00 Departure