INTERNATIONAL GNSS SEMINARS

"GNSS Courses for curious minds"

(1st Announcement)

Organized by

Sponsored by

Beihang University, Beijing, 8-20May 2016

About the International Seminar on GNSS

The International GNSS Seminar on BeiDou/GNSS technologies and applications is organized by Beihang University and EcoleNationale de l'AviationCivile and The Russ College of Engineering and Technology at Ohio University, aiming to promote training of early career researchers and professionals involving research and development and application of Global Navigation Satellite System and BeiDou technologies.

The objective of the thirteen-day seminar is to provide a comprehensive overview on selected areas of GNSS theory, hardware, software and applications. The seminar is open to postgraduates, PhD students, and early career professionals who wish to broaden their GNSS knowledge and discuss with renowned experts in their research directions and their research problems.

Internationally renowned experts are invited to give lectures on several selected topics, covering system design, ground-based and space-based augmentation, terminals and algorithms, and application technology. In addition to the overview, each lecture will also introduce their contribution to the field and provide perspectives on research challenges, trend and tangible research topics.

The agenda may also include organized informal presentations by participants and interactions with speakers. Technical visits could also be part of the seminar.

Indented audience

- Postgraduate students
- PhD students
- Post-doctoral researchers
- Junior Engineers
- Any researchers who wish to broaden and enhance their knowledge and skills.

Lecturing Language: English

Date:8-20 May, 2016

Venue: Beihang University

Co-Sponsor

- Beidou International Exchange and Training center (ITEC)
- Regional Center for Space Science and Technology Education in Asia and the Pacific (China) (Affiliated to the Union Nations) (RCSSTEAP)

Professional visits

- Beijing UniStrong Science &Technology Co.
- Beijing BDStar Navigation Co.,Ltd
- China TransInfo Technology Co., Ltd.

- Beijing SuperMap Software Co., Ltd.

Sponsorship

The sponsorship of the program is open to more academic, industries and governmental organizations.

Registration

- **Registration Deadline**

  April 15, 2016

- **Registration Costs**

  Students: 1800 Euros.

  Professionals: 2200 Euros.

  * This includes the course, the social events and meals.

- **How to register**

  Fill in the registration form and send it to IGNSSSS2016@163.com.

  1. If you are a student:
     - A scan of your student ID card
     - The name of the university programme you're following
     - Your contact details (phone number, email address, postal address)
  2. If you are a professional:
     - The name of your company and job title
     - A short description of your work experience

- **Payments means**

  For Chinese students: Cash or check (recipient: Beihang University) is both acceptable

  For International students: Cash or bank transfer is both acceptable

  The Euro remittance path is as follows:

INTERMEDIARY BANKER'NAME:	INDUSTRIAL AND COMMERCIAL BANK OF CHINA ,FRANKURT BRANCH
SWIFT CODE:	ICBKDEFF
BENE BANKER'S A/C NO.:	500170101
BENEFICIARY BANKER'NAME:	INDUSTRIAL AND COMMERCIAL BANK OF CHINA ,BEIJING MUNCIPAL BRANCH,BEIJING,RPC
SWIFT CODE:	ICBKCNBJBJM
BENEFICIARY：	Name：Beihang University
	Account：0200006209026400229
	Address: No.37 XueYuan Road, HaiDian District, Beijing, China

Any enquires on program

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INTERNATIONAL GNSS SEMINARS Agenda

Date	Time	Contents
May8th (Sunday)		Registration
May 9th (Monday)	09:00-09:30	Opening Ceremony
	09:30-10:00	Group Photo & Coffee Break
	10:00-12:00	Principles of Satellite Navigation-GNSS Principles and Structure (Maarten Uijt de Haag)
	12:00-14:00	**Lunch Break**
	14:00-15:20	Propagation Channel: Payload, Ionosphere and Troposphere (1) (Maarten Uijt de Haag)
	15:20-15:40	Coffee Break
	15:40-17:00	Propagation Channel: Payload, Ionosphere and Troposphere (2) (Maarten Uijt de Haag)
May 10th (Tuesday)	09:00-10:20	Propagation Channel: Multipath, Antenna and RF Front-End (1) (Maarten Uijt de Haag)
	10:20-10:40	Coffee Break
	10:40-12:00	Propagation Channel: Multipath, Antenna and RF Front-End (2) (Maarten Uijt de Haag)
	12:00-14:00	**Lunch Break**
	14:00-15:20	GPS L1 C/A Receiver Processing –Signal structure, Correlation operation, GPS L1 C/A Acquisition (white noise) (1) (Olivier Julien)
	15:20-15:40	Coffee Break
	15:40-17:00	GPS L1 C/A Receiver Processing –Signal structure, Correlation operation, GPS L1 C/A Acquisition (white noise) (2) (Olivier Julien)
May11th (Wednesday)	09:00-10:20	GPS L1 C/A Tracking (white noise) (1) (Olivier Julien)
	10:20-10:40	Coffee Break

	10:40-12:00	GPS L1 C/A Tracking (white noise) (2) (Olivier Julien)
	12:00-14:00	**Lunch Break**
	14:00-15:20	Effect of Multipath on Tracking and Mitigation Techniques (1) (Michael Braasch)
	15:20-15:40	Coffee Break
	15:40-17:00	Effect of Multipath on Tracking and Mitigation Techniques (2) (Michael Braasch)
	18:00	Welcome Reception
May 12th (Thursday)	09:00-10:20	Effect of Interference on Tracking and Mitigation Techniques (1) (Andrew Dempster)
	10:20-10:40	Coffee Break
	10:40-12:00	Effect of Interference on Tracking and Mitigation Techniques (2) (Andrew Dempster)
	12:00-14:00	**Lunch Break**
	14:00-15:20	GNSS Pseudorange generation, Pseudorange correction, Pseudorange Model, GNSS NavigationSolution, GNSS error budget (UERE), DOP (1) (Andrew Dempster)
	15:20-15:40	Coffee Break
	15:40-17:00	GNSS Pseudorange generation, Pseudorange correction, Pseudorange Model, GNSS NavigationSolution, GNSS error budget (UERE), DOP (2) (Andrew Dempster)
May13th (Friday)	09:00-10:20	Introduction to Differential GNSS (1) (LIU Zhizhao)
	10:20-10:40	Coffee Break
	10:40-12:00	Introduction to Differential GNSS (2) (LIU Zhizhao)
	12:00-14:00	**Lunch Break**
	14:00-15:20	RTK & PPP (1) (LIU Zhizhao)
	15:20-15:40	Coffee Break
	15:40-17:00	RTK & PPP (2) (LIU Zhizhao)
	18:00	Reception

May14th(Sunday)		Professional Visiting & Sightseeing
May15th (Sunday)	09:00-10:20	GNSS receiver processing (1) (Michael Braasch)
	10:20-10:40	Coffee Break
	10:40-12:00	GNSS receiver processing (2) (Michael Braasch)
	12:00-14:00	**Lunch Break**
	14:00-15:20	Critical Terrestrial Applications (1) (SHEN Jun)
	15:20-15:40	Coffee Break
	15:40-17:00	Critical Terrestrial Applications (2) (SHEN Jun)
May16th (Monday)	09:00-10:20	Evolutions ofGPS (Michael Braasch)
	10:20-10:40	Coffee Break
	10:40-12:00	Evolutions of GPS Evolutions of BeiDou (HAN Chunhao)
	12:00-14:00	**Lunch Break**
	14:00-15:20	Evolutions ofGalileo (1) (Christophe Macabiau)
	15:20-15:40	Coffee Break
	15:40-17:00	Evolutions ofGalileo (2) (Christophe Macabiau)
May 17h (Tuesday)	09:00-10:20	GNSS data processing (1) (JIN Tian)
	10:20-10:40	Coffee Break
	10:40-12:00	GNSS data processing (2) (JIN Tian)
	12:00-14:00	**Lunch Break**
	14:00-15:20	Evolutions ofMulti-constellation Positioning (1) (Christophe Macabiau)
	15:20-15:40	Coffee Break
	15:40-17:00	Evolutions ofMulti-constellation Positioning (2) (Christophe Macabiau)
May 18h(Wednesday)	09:00-10:20	Definition of Reliability and Confidence; Case study of Civil Aviation Requirements (1) (Laurent Azoulai)
	10:20-10:40	Coffee Break
	10:40-12:00	Definition of Reliability and Confidence; Case study of Civil Aviation Requirements (2) (Laurent Azoulai)
	12:00-14:00	**Lunch Break**

	14:00-15:20	RAIM and Advanced RAIM (1) (Christophe Macabiau)
	15:20-15:40	Coffee Break
	15:40-17:00	RAIM and Advanced RAIM (2) (Christophe Macabiau)
May 19^{h}(Thursday)	09:00-10:40	Ground Based Augmentation System (GBAS) (XUE Rui)
	10:40-11:00	Coffee Break
	11:00-12:00	Laboratory Visiting (XUE Rui)
	12:00-14:00	**Lunch Break**
	14:00-15:20	Ground Based Augmentation System (SBAS) (1) (Laurent Azoulai)
	15:20-15:40	Coffee Break
	15:40-17:00	Ground Based Augmentation System (SBAS) (2) (Laurent Azoulai)
May 20^{h}(Friday)	09:00-10:20	Participants Forum (WU Falin)
	10:20-11:00	Feedback, Survey and Evaluation
	11:00-11:30	Closing Ceremony