

## REGISTRATION

Seminar fee: 2,500 EUR

Class size is limited to 10 persons.

Attendance is on a first-come, first-served basis and is subject to availability.

## ACCOMMODATION

Rooms are reserved for the period of July 20-24, 2015 in the face to face located Hotel Campus at home IZB Residence (25 minutes to downtown Munich with public transportation). Hotel website: [www.campusathome.de](http://www.campusathome.de)

Rooms and rates will be held until June 01, 2015 for a daily rate of 75 EUR, including service and tax without breakfast. Breakfast buffet: 10 EUR  
Later accommodation requests will be filled on a space available basis.



### Contact for more information on seminar topics and registration:

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### Questions regarding hotel reservation and travel assistance should be sent to:

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[www.menlosystems.com](http://www.menlosystems.com)  
[www.frequencycomb.com](http://www.frequencycomb.com)

## 6TH FREQUENCY COMB SEMINAR

July 21-24, 2015

**Location:**  
**Headquarters of Menlo Systems**  
**in Munich**

Menlo Systems offers its sixth in-house seminar on optical frequency combs, metrology and optical frequency measurements.



Menlo Systems, a leading developer and global supplier of instrumentation for high-precision metrology, was founded in 2001 as a spin-off of the Max Planck Institute of Quantum Optics, with the foremost aim to commercialize optical comb technologies and make it available to newly emerging application fields. Menlo Systems maintains a strong bond to co-founder Nobel Laureate Theodor W. Hänsch, who pioneered precision laser techniques.



Our instructors have extensive knowledge and experience in optical frequency combs and optical frequency measurements. The course will include morning lectures and afternoon hands-on training sessions with our state-of-the-art in-house optical frequency comb systems. Ample personal attention will be ensured by the limited class size.

External speakers and a visit to the labs of the renowned Max Planck Institute of Quantum Optics will give a chance to interact with leading scientists in the field.

List of external speakers and schedule will be available by May 2015.

## TOPICS INCLUDE

- fundamentals of frequency comb technology
- frequency comb applications
- certification
- building blocks of fiber-based systems
- data acquisition and analysis
- systematic and statistic errors
- stability and accuracy
- RF references
- carrier collapse
- software tools for comb control, automation
- remote monitoring
- cw laser frequency measurements and phase-locking
- 1-Hz linewidth optical reference system
- hands-on experience in the Menlo test lab

## Comments from attendants of the previous Frequency Comb Seminars:

“excellent introduction to comb practice”

“it really helped to understand the essentials”

All attendants would recommend this seminar to others.



## PRACTICAL TRAINING SESSIONS

Participants can deepen their knowledge and improve lab skills as they work with the fiber-based FC1500-250-WG Optical Frequency Synthesizers and various stabilized CW lasers.

