

Learn How Integrating Spheres and Spectrometers Can Add Value to Your Efforts?

Optical Sensing Workshop **2008**

Choose From These Great Locations!

**Eindhoven
The Netherlands**
Tuesday
7 October 2008

**Berlin, Germany
Berlin Adlershof**
Thursday
9 October 2008

Registration Fee
150 Euro
Lunch Provided

Maximum participants
50 persons

Sponsored by:

 SphereOptics

 avantes
SOLUTIONS IN
SPECTROSCOPY

Photonics Cluster

N e t h e r l a n d s

Learn design fundamentals and application methods, plus HANDS-ON workshops to discuss your optical sensing issues.

WHAT YOU WILL LEARN

SphereOptics presents –
The integrating sphere – a versatile solution in light measurement

This seminar provides information on the basic science of radiometry and photometry, including theory and design, how to specify and use an integrating sphere for measuring light sources and electronic imaging sensors and assessing measurement performance.

Avantes presents – *The Micro spectrometer – providing affordable solutions in Spectroscopy*

Attendees will gain a general understanding of the fundamentals of spectrometer design, and explore specific applications in radiometry and color measurements. Experts will discuss current applications and help determine how spectroscopy and optical sensing techniques may be applied to solve specific issues for customers in industry and research.

WHO SHOULD ATTEND?

The lectures and seminars are intended for scientists and engineers working in the field of optical sensing including light measurement, color measurement and spectroscopic measurement techniques.

PRACTICAL & HANDS-ON DEMONSTRATIONS

Practical demonstrations for a variety of integrating sphere measurements and spectroscopy applications such as color and LED measurements will be shown. Attendees will also have the opportunity for hands-on use of instruments. Ample time is allotted in a separate demonstration room to discuss your application with the workshop presenters.

Join Industry Experts and Learn:

- Basics of Light Radiometry and Photometry
- Basic Principles of Color Measurement
- Techniques for Spectroscopic Analysis
- Spectrometer Design and Selection

Plus How To:

- Specify an Integrating Sphere
- Select and Configure the Right Spectrometer
- Choose the Appropriate Light Source

for YOUR SPECIFIC APPLICATION!

WORKSHOP PROGRAM

**FOR WORKSHOP
INQUIRIES, PLEASE
CONTACT
ONE OF THE
SPONSORS BELOW:**

Avantes BV

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TIME	EVENT	SPONSOR
9.00	Registration	
9:30	Welcome & Introductions	
9:45	Integrating Sphere Theory & Application <ul style="list-style-type: none">• Radiometry/Photometry Terminology & Units• Diffuse Reflectance Materials & Coatings• Lamp & LED Measurement• Reflectance/Transmittance Measurement• Uniform Calibration Sources• Laser Power Measurement	Nadine Cariou Wolfgang Böhme SphereOptics
10.45	Coffee Break	
11.00	Integrating Sphere Theory & Application <i>(continued)</i>	
11.30	Solutions in Spectroscopy <ul style="list-style-type: none">• Spectrometer Design• Light Sources• Fiber Design	Benno Oderkerk Avantes BV
12.30	Lunch Break	
13.30	Color and Irradiance	Benno Oderkerk Avantes BV
14.00- 16.30	Hands on Training <ul style="list-style-type: none">• LED Measurement• Color Measurement• Luminance/Radiance Standards	
15.00	Coffee Break	
16.30	Wrap-up	
17.00 - 18.00	Networking and Drinks	

**Practical & Hands-on Demonstrations
from 14.00 to 16.30**

*Don't miss this opportunity for hands-on use of instruments
and to discuss your application with the workshop presenters.*