



Elevator pitch

Alfred R. Holzwarth

Affiliations:

ChloroSpec B.V. Amsterdam, The Netherlands
Max-Planck-Institute for Chemical Energy Conversion,
Mülheim a.d. Ruhr, Germany (ret.)

Email:

alfred.holzwarth@chlorospec.com or
Alfred.Holzwarth@gmx.net



Background:

I am a biophysicist and chemist by training. During my research career I have been developing optical spectroscopic methods for the characterization of biological systems, with a focus on photosynthesis. Another focus of my interests was the development of advanced data analysis methods for time-resolved spectroscopies. Since my retirement from my research position at the Max-Planck-Institute I have concentrated on developing new instruments for photosynthesis research that allow to exploit the advantages of full wavelength-resolution of the optical signals. Together with colleagues I founded a commercial company (ChloroSpec B.V.) for developing and marketing these instruments with a focus on advanced early stress detection of photosynthetic organisms.

I propose to address in the workshop:

- What are the advantages of frequency-resolved measurements to better understand the photosynthetic regulation and NPQ?
- Applications of advanced data modeling methods – including systems identification – to describe the mechanisms of photosynthetic regulation in the light-adapted state under oscillating light and possible applications in plant phenotyping.