

**Comparision of 30 year old Shimadzu UV3000 spectrophotometer  
and newer model Shimadzu UV 2600**

**Doc. Michal Koblížek**

*Laboratory of Anoxygenic Phototrophs, Centre Algatech, Institute of Microbiology of the  
Czech Academy of Sciences, Třeboň, CR*

Our department owns an old Shimadzu UV3000 double beam dual wavelength spectrophotometer. The instrument was purchased in 1987, it has been used on daily basis with only minimum maintenance and it still contains the original PMT. This old instrument was compared with a newer model Shimadzu UV2600. These instruments use different technical solutions how to reduce the sample scattering. UV 3000 has a dedicated compartment close to the detector while UV2600 can accommodate an integrating sphere. Each solution has its pros and cons. Despite of the fact that UV3000 suffers from certain age problems, in case is used properly, provides good quality absorption spectra up to 900 nm. In addition it can perform kinetic measurements with side illumination. The advantage of the smaller UV2600 instrument is smaller foot print, lower price, user friendly software and better performance in the near infra red part of the spectrum.