

# A reexamination of the Kitajima and Butler (1975) model for relating chlorophyll *a* fluorescence to photochemistry



Warren Lee Butler

Source: Benson A.A.: Warren Lee Butler—January 28, 1925–June 21, 1984. Biographical Memoir. – National Academies Press, Washington, DC, USA, 1998.



Jan Anderson in discussion with Pierre Joliot (left) and Warren Butler

Source: Chow W.S., Horton P., Barret M., and Osmond B.A.: Remembering Joan (Jan) Mary Anderson (1932–2015). – Photosynth. Res. 129(2): 129–146, 2016.

## Highlights

- On the assumptions of the Kitajima and Butler (1975) chlorophyll fluorescence emission model
- Using proper  $F_v/F_m$  measurements, the quantum yield of PSII can indeed be assessed
- The influence of the technical features of the fluorometer(s) on the measured  $F_v/F_m$  ratio is considered