

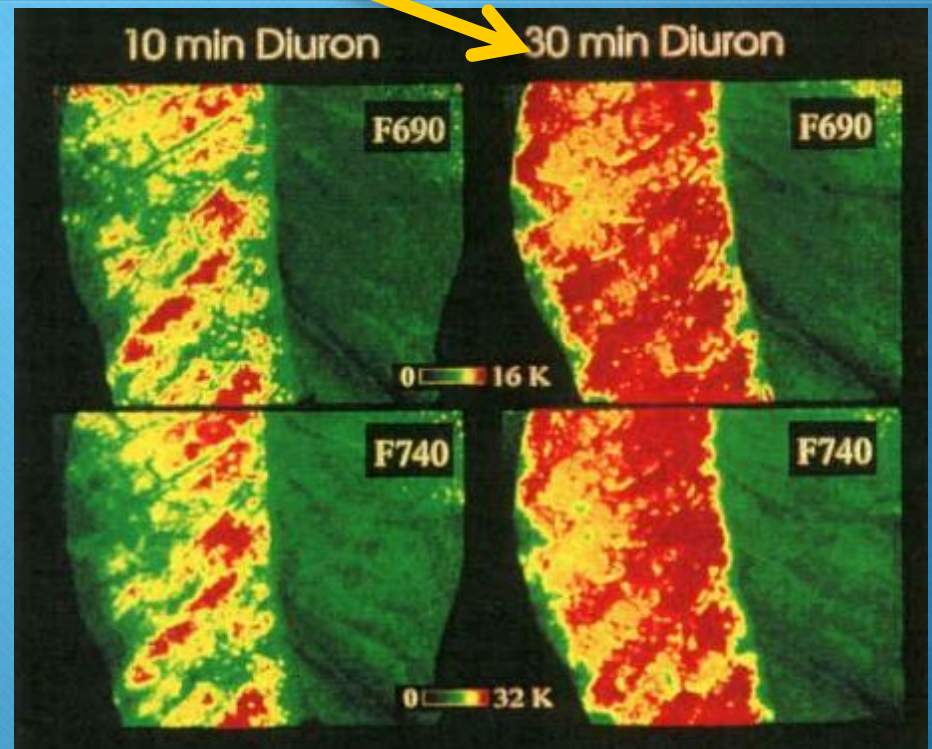
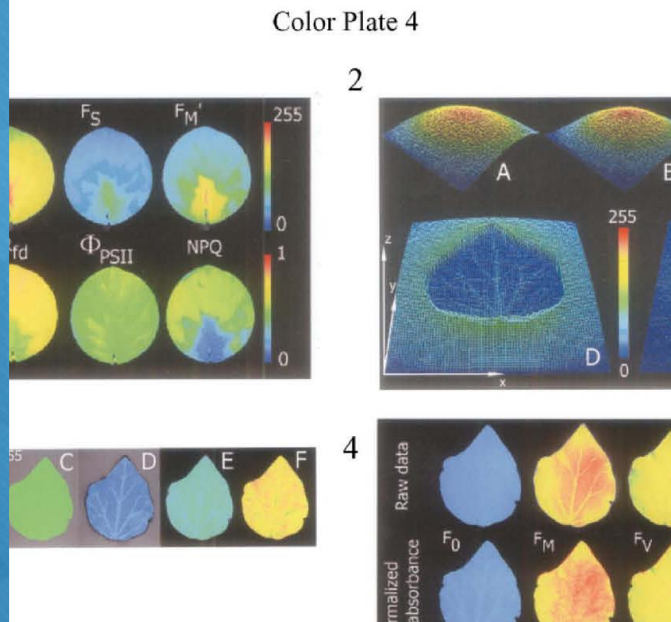
Hartmut Lichtenthaler: The New King of The Chloroplast

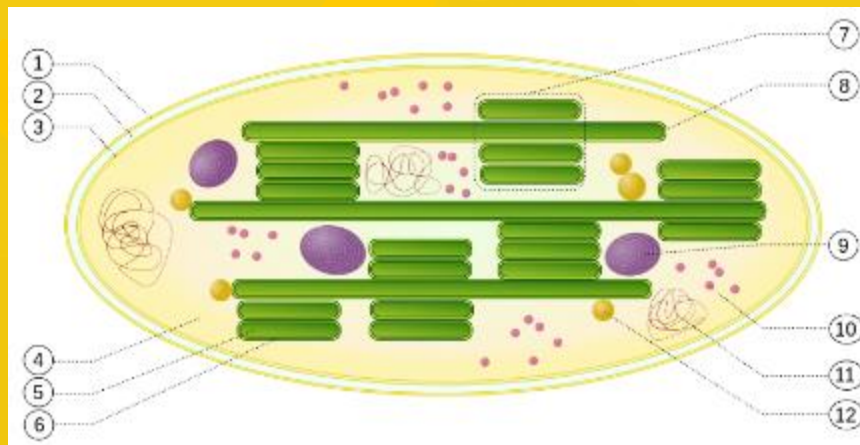
September 12, 2015--- How he looked like--
yesterday and day before, but first.. ...?

Govindjee
(gov@illinois.edu)

Playing with **red** light (fluorescence) from **plants** to monitor their efficiency— an area very dear to my heart since 1960s—
Hartmut's pioneering work on imaging leaves has been a great attraction to me

Effects of herbicides on plants were studied wonderfully well by Hartmut





**It is best to read what Hartmut wrote himself about his research :
 Fifty--Five Years of Research on
 Photosynthesis, Chloroplasts, and Stress Physiology of Plan
 ts: 1958–2013 . Progress in Botany 76: 3--32 (2014).**

We think of Hartmut when we hear of :

- the first analysis of quinones in the chloroplasts
 (UC Berkeley)**
- --phyloquinones (Heidelberg)—
 plastoglobuli (University of Muenster)**
- Isoprenoid biosynthesis (citation classic)**
- Quantitative measurement of chlorophyll a/b in leaves**



Professor Thomas J. Bach, University of Strassborg, France..

In early 1970s, Thomas J. Bach , after 3 semesters at TU, Karlsruhe, was ready to give up “biology” and to study only chemistry; he was frustrated with biology. But, he was saved by whom?: Our own Hartmut Lichtenthaler, who indeed had a chemical formula on the blackboard during his lecture. This was a true revelation to Bach : this is “biology” ! Bach wrote “ **Hartmut’s lectures were indeed fascinating:** filled with news on latest research in photosynthesis”, and Bach became Hartmut’s PhD student.



Professor Thomas J. Bach: On Hartmut's Collaborative spirit and being an educator of the highest order

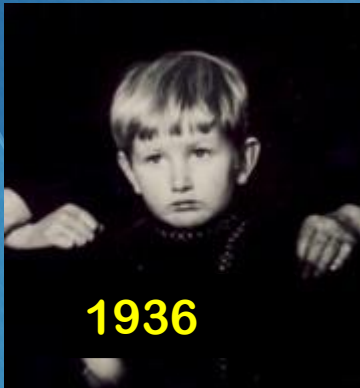
Bach added “Hartmut K. Lichtenthaler has set a [high] standard in the organization of **international collaboration** and projects across borders at a time when the “**Iron Curtain**” was still existing, as editor of books and author of an impressive number of articles, and, amazingly, is still maintaining his deep interest in photosynthesis research and”



Thomas J. Bach: On Hartmut's research style

Hartmut really drove his group with his **dynamism** and “**speed**”; and as Bach said, “**with his “hunger” for new data**; the door to his office was usually kept open..... He gained a special reputation for his **dynamic attitude**, at the TU Karlsruhe”.

Photos from his early life, 1936-1965



1936



1951



1962, Pasadena



1962, Skiing



1943



1961

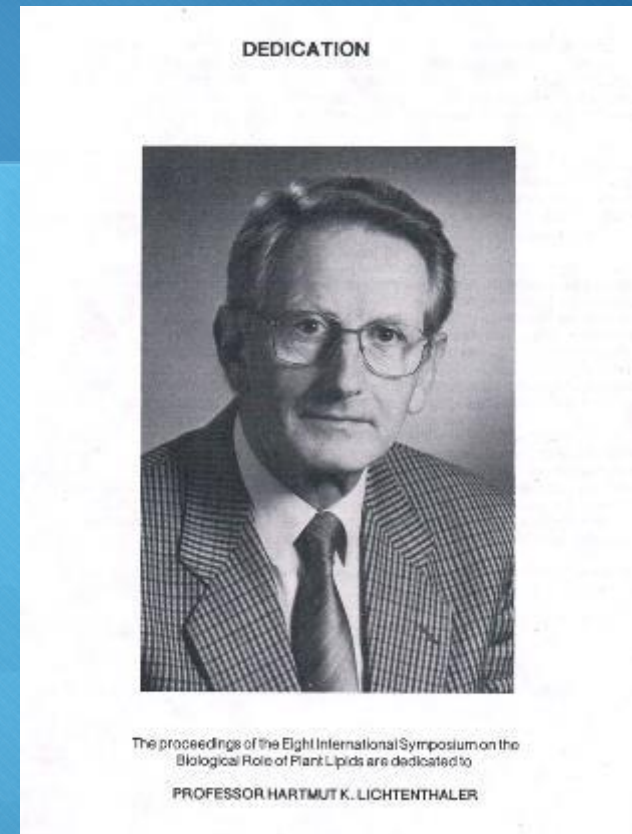


1963, In Melvin Calvin's lab



1965, Field trip in Morocco

Hartmut, in the late 1970s—1980s



Hartmut, during 1994 and 1995



With
Schindler,
after her
exam

Hartmut, 1998, 1999



Top Left: With Bob Buchanan
at UC Berkeley, 1998



Honorary
Doctorate,
1998; he has
received
several
honorary
doctorates
from many
institutions



Bottom Right: With Laurie Bogorad, at
Harvard

Hartmut in 2000s, and now you can see him in person.. Sep. 12, 2015

With Andy Benson, in 2007,
at his 90th birthday
At Perocope, Paris, where Napolean
had dined long ago,



With Ken Sauer, 2006



With Al Bassham, 2006

Hartmut received a medal from the Czech Academy of Science, in 2004
Hartmut, “Herzlichen Glückwunsch” at the 2015 Award in Urbana-Champaign

