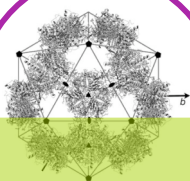
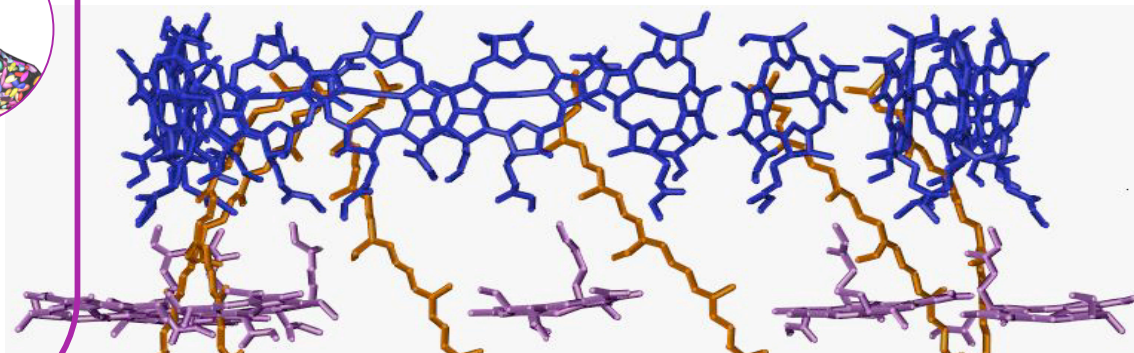
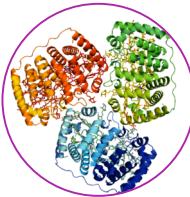
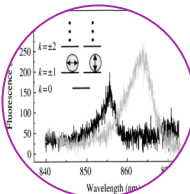
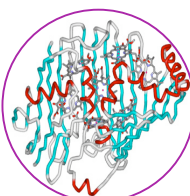


# PS2007 DRYmen



## Satellite Meeting 19<sup>th</sup> – 22<sup>nd</sup> July 2007 Buchanan Arms Hotel, Drymen, Scotland



# Programme

## Thursday 19<sup>th</sup>

17:00 – 17:50 Welcome reception

17:50 – 18:00 Opening remarks by Richard Cogdell

### Single Molecule Studies on Antenna Complexes

Chair: Silvia Volker, Leiden

18:00 – 18:30 *‘Sunlight, purple bacteria and quantum mechanics’*  
Jürgen Köhler, Bayreuth

18:30 – 19:00 *‘The dynamic organization of the bacterial photosynthetic light-harvesting complexes: fluorescence microspectroscopy’*  
Danielis Rutkauskas, Florence

19:00 – 20:30 Evening meal

## Friday 20<sup>th</sup>

### Evolution of antenna systems

Chair: Mette Miller,

09:00 – 09:30 *‘Candidatus Chloracidobacterium thermophilum: an aerobic phototrophic Acidobacterium with chlorosomes and type 1 reaction centers’*  
Don Bryant, Penn. State

09:30 – 10:00 *‘Antenna composition in diatoms: role and localisation of different Fucoxanthin-Chlorophyll-Proteins of Cyclotella meneghiniana’*  
Claudia Büchel, Frankfurt

10:00 – 10:30 *‘The Chl a/c light-harvesting antennas of marine algae (not an unusual group!)’*  
Beverley Green, Vancouver

10:30 – 11:00 Coffee/Tea break

**In vivo Organisation of Antenna Complexes**

Chair: Herbert van Amerongen, Wageningen

11:00 – 11:30 *‘Excitation energy transfer in photosystem II complexes and in thylakoid membranes’*

Jan Dekker, Amsterdam

11:30 – 12:00 *‘Atomic level structure and function of an entire biological membrane: the photosynthetic unit of Rhodobacter sphaeroides’*

Melih Sener, Cornell

12:00 – 12:30 *‘The crystal structure of the FMO protein of Pr. aestuarii at 1.3 Å resolution’*

Dale Tronrud, Oregon

12:30 – 14:00 Lunch

14:00 – 16:00 Poster session:

16:00 – 16:30 Coffee/Tea break

**Ultra-fast Dynamics on Antenna Complexes**

Chair: Alfred Holzwarth, Mülheim

16:30 – 17:00 *‘Theory of light-harvesting and optical spectra: From structure to function’*

Thomas Renger, Berlin

17:00 – 17:30 *‘2D electronic spectroscopy studies of the LH3 light-harvesting complex’*

Donatas Zigmantas, Lund

17:30 – 18:00 *‘The dual-branched electron transfer In*

*the primary charge separation of Photosystem I'*

Marc Müller, Mülheim

**Artificial antenna systems**

Mamouru Nango, Nagoya

18:00 – 18:30

*'Artificial Light-Harvesting Antennas by Self-Assembly of Synthetic Chlorophylls'*

Hitoshi Tamiaki, Ritsumeikan

18:30 – 19:00

*'Self-assembling Chromophores as Mimics of the Chlorosomal Bacteriochlorophylls'*

Silviu Balaban, Karlsruhe

19:00 – 20:30

Evening meal

**Plenary Lecture**

Chair: Yasushi Koyama, Sanda

20:30 – 21:30

Tba

Rienk van Grondelle, Amsterdam

**Saturday 21<sup>th</sup>**

**Non Photochemical Quenching**

Chair: Alexander Ruban, Sheffield

09:00 – 09:30

*'The major antenna protein of higher plants: from light harvesting to energy dissipation'*

Bruno Robert, CEA Saclay

09:30 – 10:00

*'The dependence of NPQ on xanthophyll composition in vivo and in vitro'*

Robert Bassi, Verona

10:00 – 10:30

*'The xanthophyll dependence of q<sub>e</sub> in arabidopsis'*

Kris Niyogi, Berkeley

10:30 – 11:00 Coffee/Tea break

**Regulation of Assembly of Antenna complexes**

Chair: Neil Hunter, Sheffield

11:00 – 11:30 ***‘Roles of bacteriophytochromes in the regulation of LHC in Rhodospseudomonas palustris’***  
André Verméglio, CEA – Cadarache

11:30 – 12:00 ***‘Assembly of purple bacterial photosynthetic complexes’***  
Thomas Beatty, Vancouver

12:00 – 12:30 ***‘Phycobilisome biosynthesis: chromophore attachment to biliproteins’***  
Hugo Scheer, Munich

12:30 – 14:00 Lunch

14:00 – 16:00 Poster session:

16:00 – 16:30 Coffee/Tea break

**Use of Molecular Genetics/Biology to Study Antenna Complexes**

Chair: Conrad Mullineaux, Queen Mary

16:30 – 17:00 ***‘In between algae and higher plants: analysis of the moss Physcomitrella patens allows identification of light harvesting proteins associated to terrestrial environment adaptation’***  
Tomas Morosinotto, Padova

17:00 – 17:30 ***‘Towards a model system for light harvesting with carotenoids: structures of native and refolded Peridinin-Chlorophyll a-Proteins’***  
Eckhard Hofmann, Bochum

17:30 – 18:00      *What can we learn from plants lacking light-harvesting proteins - in a molecular as well as in a whole plant perspective?*

Frank Klimmek, Umeå

**Carotenoids and energy transfer**

Chair: Hideki Hashimoto, Osaka

18:00 – 18:30      *'Excited state properties of the carotenoid salinixanthin, a light-harvesting pigment of xanthorhodopsin from halobacterium Salinibacter ruber'*

Tomáš Polívka, South Bohemia

18:30 – 19:00      *'Observation and control of excited state dynamics in carotenoids using pump-Degenerate-Four-Wave-Mixing'*

Marcus Motzkus, Marburg

19:00 – 20:30      Evening meal

**General Discussion**

**Sunday 22<sup>nd</sup>**

09:00 – 12:30      Short presentations selected from the submitted posters  
Chair: Richard Cogdell, Glasgow & Bob Niederman, Rutgers

10:30 – 11:00      Coffee/Tea break

12:30 – 14:00      Lunch

14:00              Departure to SECC or Glasgow airport

