



THE LIGHT ENERGY CONVERSION IN PHOTOSYNTHETIC SYSTEMS: A SYMPOSIUM IN MEMORY OF GIORGIO FORTI (1931-2021)

MARCH 4TH, 2024

9.00 Giorgio PARISI (Presidente della Classe di Scienze Fisiche, Matematiche e Naturali dei Lincei): Welcome addresses

Chair: Giorgio PARISI (Presidente della Classe di Scienze Fisiche, Matematiche e Naturali dei Lincei)

- 9.15 Lia FORTI (Università dell'Insubria): Giorgio Forti: un ritratto familiare
- 9.30 Maria Ida DE MICHELIS (Università di Milano): Vita Accademica di Giorgio Forti
- 9.45 Massimo Annibale ROSSI (ONG Vento di terra - Milano): Giorgio Forti ed il suo impegno civile
- 10.00 Giuseppe ZUCHELLI (Istituto di Biofisica CNR - Milano): 40 anni di studi fotosintetici
- 10.30 Coffee break
- 10.45 Paolo BERNARDI (Università di Padova e Istituto Veneto di Scienze, Lettere e Arti): Synthesis of ATP: an historical perspective
- 11.15 Nathan NELSON (Tel Aviv University): Structure and function of the photosynthetic systems
- 12.15 Leonardo GUIDONI (Università dell'Aquila): Water oxidation: identification of intermediate chemical species
- 12.45 Giovanni FINAZZI (CNRS - Grenoble): Electron transport pathways in photosynthesis

Chair: Roberto BASSI (Lincoo, Università di Verona)

- 14.30 Dario LEISTER (Ludvig University - Munich, Germany): Cyclic Electron Transport
- 15.00 Tomas MOROSINOTTO (Università di Padova): The ascorbate-peroxidase system of the chloroplast and its role in pseudo-cyclic electron transport
- 15.30 Roberta CROCE (Vrije Universiteit - Amsterdam): Balancing photon harvesting between photosystems
- 16.00 Coffee break
- 16.15 Giulio CERULLO (Lincoo, Politecnico di Milano): Tracking energy flow in light harvesting systems with ultra-fast spectroscopy
- 16.45 Maurizio PRATO (Lincoo, Università di Trieste): Artificial photosynthetic systems
- 17.15 General discussion

Giorgio Forti was a member of the Accademia dei Lincei, dean of the category of Biochemistry and Molecular Biology, until he passed away at the age of 90 on March first, 2021. He was an initiator and promoter in Italy of studies on photosynthesis, of which he investigated fundamental aspects with particular regard to the mechanisms of electronic transport from water to NADP⁺ and concomitant synthesis of ATP. He was also a citizen aware of social and political problems. With a Jewish father, he was interested in the fate of Palestinian citizens whose rights he defended by supporting cultural education with multiple initiatives. The symposium will begin by retracing the life of Giorgio Forti and his academic role. This will be followed by a series of interventions by former collaborators and other Italian and international scientists who will review the progress of studies concerning: i) the oxidation of water and the production of oxygen, (ii) the mechanisms of electronic transport to NADP⁺ and regulation of photon collection between photosystem I and II and the structure and function of ATPase. Finally, a perspective for (bio)technological solutions to environmental sustainability problems by modifying photosynthetic function will be proposed.

ROMA - PALAZZO CORSINI - VIA DELLA LUNGARA, 10
Segreteria del convegno: convegni@lincei.it — <http://www.lincei.it>

Per partecipare in presenza al convegno è necessaria l'iscrizione online
Fino alle ore 10 è possibile l'accesso anche da Lungotevere della Farnesina, 10
I lavori potranno essere seguiti dal pubblico anche in streaming