

## PROGRAM

### Sept. 11, Monday

16:00 - Registration

17:30-18:30 - Welcome address

18:30-19:30 - Welcome cocktail

### Sept. 12, Tuesday

09:00–10:30 - SHIGEKI TAKEUCHI (Department of Electronic Science and Engineering, Kyoto University)  
*Photonic quantum information and quantum metrology*

11:00–11:30 – Coffee break

11:00–12:00 - ROELAND VAN WIJK (Meluna Research B.V., NL)  
*Spontaneous ultraweak photon emission in correlation to inflammatory metabolism and oxidative stress in a mouse model of rheumatoid arthritis*

12:00–13:00 – AGATA SCORDINO (Department of Physics and Astronomy, University of Catania, I)  
*News and Views on fields of Delayed Luminescence application*

13:00-15:30 - Lunch

15:30-17:00 - GERALD POLLACK - (University of Washington, Seattle, USA)  
*Building Fourth Phase of Water: A Central Role of Light*

17:00–17:30 – Coffee break

17:30-18:30 - ANTONELLA DE NINNO (ENEA Frascati Research Center, Rome, I)  
*Water structure and biological process*

### Sept. 13, Wednesday

08:30–09:30 - YOSEF SCOLNIK (Israel Institute for Advanced Research)  
*Deviation from identity of macroscopic properties of enantiomers –via water chiral preference. (Is water chiral?) Implications on life beginning*

09:30–10:30 - GIUSEPPE VITIELLO (Department of Physics, University of Salerno, I)  
*The dynamics of Polymerase Chain Reaction processes*

10:30–11:00 – Coffee break

11:00–12:00 - ERNST ZURCHER (Bern University of Applied Sciences, CH)  
*The transformation of light by trees*

12:00–13:00 - FRANCESCO MUSUMECI (Department of Physics and Astronomy, University of Catania, Italy)  
*Delayed Luminescence as a tool to study the influence of solutes on the water ephemeral structures*

13:00-15:30 - Lunch

15:30-16:30 – LEEN BREEVOORT (Qi Nanophotonics, Hong Kong)  
*An introduction to Qi Nanophotonics*

16:30-17:30 - HUGO NIGGLI – *Ultraweak electromagnetic wavelength radiation as Ultraweak Photon Emission signals to regulate life processes* – BioFoton (CH)

20:00-23:00 – Social dinner

### **Sept. 14, Thursday**

08:30–09:30 – ALBERTO FOLETTI (Clinical Biophysics International Research Group, Lugano, Switzerland)  
*Some biological and clinical evidences of electromagnetic information transfer through aqueous system*

09:30–10:30 - LARISSA BRIZHIK (Bogolyubov Institute for Theoretical Physics, Kiev, Ukraine)  
*Role of electromagnetic field in self-organization of living matter from cells to ecosystems*

10:30–11:00 – Coffee break

11:00–12:00 - EDUARD VAN WIJK (Leiden University, Leiden, NL)  
*Spontaneous human photon emission in biological aging*

12:00–13:00 - PIERRE MADL (University of Salzburg – Edge Institute, Austria)  
*Coherence Monitor-prototyping and testing for UPE measurements*

13:00-15:30 - Lunch

15:30-16:10 - AGATA CAMPISI (Drug Science Department, University of Catania, Italy)  
*Effect of electromagnetic field at low intensity on primary nervous cell cultures*

16:10-16:50 - MARISA GULINO (KORE University, Enna, Italy)  
*Delayed Luminescence to monitor effects of ion irradiation on seeds*

16:50-17:20 – Coffee break

17:20-18:00 – EMANUELE LEONORA (INFN – Sezione di Catania, Italy)  
*Cherenkov light detectors in the KM3NeT neutrino telescope*

### **Sept. 15, Friday**

09:30–11:30 - Discussion on general topics and potential application for international projects

11:30–12:30 – Farewell cocktail