Transforming our Future:

From Biological to Bio-inspired Artificial Systems

Detailed Program

Sunday – January 27th	
16:00 - 17:00	Registration
17:15 - 17:30	Welcome from the E-WISPOC Chair Introductory Comments by E-WISPOC Scientific Committee
17:30 - 18:45 **Opening Lecture:**	Chair: **Maurizio Prato** (Basque Foundation for Science - Spain) *"Advanced Design of Self-Healable Materials by Supramolecular Chemistry"* **Takuzo Aida** (Department of Chemistry and Biotechnology, School of Engineering, The University of Tokyo, Japan) 5 min introduction – 50-55 min presentation + 15-20 min discussion
19.00 – 20.30	Dinner
Monday – January 28th	
9:00 - 12:00	**Biological Models and Bioinspired Systems for new ENERGY schemes & Computational Perspectives-** Discussion Leader: **Marcella Bonchio** (University of Padova, Department of Chemical Sciences - Italy)
9:00 – 10:15 **Lecture 1– BIO/Energy**	Introduction by Discussion Leader *"Photoconverters from Functional Organic Molecules and Photosynthetic Microorganisms* " **Gianluca Farinola** (University of Bari, Italy) 5 min introduction – 50-55 min presentation + 15-20 min discussion
10:15 - 10:45	Coffee Break
10:45 - 12:00 **Lecture 2 – BIO/Energy**	Introduction by Discussion Leader *"Snapshots of Primary Photoinduced Events in (Bio)-Molecules by Ultrafast Optical Spectroscopy"* **Giulio Cerullo** (Physics Department, Politecnico di Milano, Italy) 5 min introduction – 50-55 min presentation + 15-20 min discussion
12:00 - 17:30	Lunch/Free Time

17:30 – 18.45 **Lecture 3 – BIO/Modelling**	Introduction by Discussion Leader *"All that jazz"* **Francesco Zerbetto** (University of Bologna, Italy) 5 min introduction – 50-55 min presentation + 15-20 min discussion
19.00- 20.30	Dinner
20.30 - open	**POSTER SESSION I**
Tuesday – January 29th	
9:00 - 12:00	**Biological Models and Bioinspired Systems for Human Health** Discussion Leader: **Maurizio Prato** (Basque Foundation for Science - Spain)
9:00 - 10:15 **Lecture 4 – BIO/Health**	Introduction by Discussion Leader "*Approaches to 3D reconstruction of human cornea* " **Graziella Pellegrini** (University of Modena and Reggio Emilia, Italy) 5 min introduction – 50-55 min presentation + 15-20 min discussion
10:15 - 10:45	Coffee Break
10:45 - 12:00 **Lecture 5 – BIO/Health**	Introduction by Discussion Leader " *Soft and hybrid structure to mimic bio-systems*" **Luisa De Cola** (Université de Strasbourg, Institut de Science et d'Ingénierie Supramoléculaires, France) 5 min introduction – 50-55 min presentation + 15-20 min discussion
12:00 - 17:30	Lunch/Free Time
17:30 – 18.45 **Lecture 6 – BIO/Health**	Introduction by Discussion Leader "*Bio-inspired therapeutic strategies for Alzheimer's disease*" **Mario Salmona** (Istituto Mario Negri di Milano, Italy) 5 min introduction – 50-55 min presentation + 15-20 min discussion
19.00- 20.30	Dinner
20.30 - open	**POSTER SESSION II**
Wednesday – January 30th	
9:00 - 12:00	**Biological Models and Bioinspired Systems for Transformation of Raw Materials-Feedstocks.** Discussion Leader: **Massimo Bietti** – University of Rome Tor Vergata (Italy)

9:00 - 10:15 **Lecture 7 – BIO/RawMat**	Introduction by Discussion Leader "*Novel Materials Created from Synthetic Polysaccharides: Synthesis, Structure and Function*" **Peter Seeberger** (Max-Planck Inst. for Colloids and Surfaces, Potsdam, DE) 5 min introduction – 50-55 min presentation + 15-20 min discussion
10:15 - 10:45	Coffee Break
10:45 - 12:00 **Lecture 8 – BIO/RawMat**	Introduction by Discussion Leader "*Cleave and couple - Sustainable pathways to valuable chemicals from renewables* " **Katalin Barta** (Stratingh Inst. for Chemistry, University of Groningen, NE) 5 min introduction – 50-55 min presentation + 15-20 min discussion
12:00 - 17:30	Lunch/Free Time
17:30 – 18.45 **Lecture 9 – BIO/RawMat**	Introduction by Discussion Leader "*The reactivity of alkane carbon-hydrogen bonds: strategies, trend, models and predictions* " **Pedro Perez** (Center for Research in Sustainable Chemistry, CIQSO, Universidad de Huelva, ES) 5 min introduction – 50-55 min presentation + 15-20 min discussion
19.00- 20.30	Dinner
20.30 – 21:00	**"Tips for a competitive project"** Giovanni Curi (From University of Padova)
21:00-open	**GROUP Activities – project development, I session** Supervised by Scientific Tutors
Thursday – January 31st	
9:00 - 12:00	**Biological Models and Bioinspired Systems – Energy schemes & Industrial Perspectives** Discussion Leader: **Valeria Costantino** – University of Naples Federico II (Italy)
9:00 – 10:15 **Lecture 10 BIO/Energy**	Introduction by Discussion Leader *"Semi-biological Photosynthesis"* **Erwin Reisner** (Department of Chemistry, University of Cambridge, UK) 5 min introduction – 50-55 min presentation + 15-20 min
10:15 - 10:45	Coffee Break

10:45 - 12:00 **Lecture 11** **BIO/Industrial**	Introduction by Discussion Leader "*A Dive in process chemistry: transferring reactions from laboratory to the plant*" **Francesco Fontana** (FIS, Fabbrica Italiana Sintetici) 5 min introduction – 50-55 min presentation + 15-20 min discussion
12:00 - 17:30	Lunch/Free Time
17:30 - 19.30	**GROUP Activities – project development, II session** Supervised by Scientific Tutors
20.00 – 22.00	Social Dinner **– Poster Prize Event**
Friday – February 1st	
9:15 - 10:30	**Project Presentations by Group Representatives**
10:30-11.00	Coffee Break
11.00 - 11.45	**"Funding opportunities and open calls"** Giovanni Curi (From University of Padova)
11.45-12.15	**BEST PROJECT IDEA AWARD** – Closing Remarks