

**Coordinators** Barbara Betti, Stefano Consonni and Marino Gatto

**Tuesday, May 6<sup>th</sup>**

11:15 – 11:30 **Introduction to the course**

Marino Gatto, *Politecnico di Milano, Dept. of Electronics, Information and Bioengineering*

11:30 – 12:15 **Sustainability: concepts and problems**

Marino Gatto, *Politecnico di Milano, Dept. of Electronics, Information and Bioengineering*

12:15 – 13:30 **Fundamentals of global climate change**

Marcello Vichi, *Euro-Mediterranean Centre for Climate Change, Bologna*

13:30 *Lunch*

15:00 – 16:15 **Water as a global resource**

Andrea Castelletti, *Politecnico di Milano, Dept. of Electronics, Information and Bioengineering*

16:15 – 17:30 **Global change, ecosystem vulnerabilities and feedback**

Franco Miglietta, *National Research Council (CNR), Institute of Biometeorology*

17:45 – 19:00 **Energy availability and production and energy policies**

Stefano Consonni, *Politecnico di Milano, Dept. of Energy*

**Wednesday, May 7<sup>th</sup>**

09:00 – 10:15 **Global demographic problems**

Graziella Caselli, *Sapienza University of Rome, Dept. of Statistical Sciences*

10:15 – 11:30 **Sustainable mobility**

Marco Ponti, *Politecnico di Milano, Dept. of Architecture and Urban Studies*

11:40 – 13:00 **Working Groups presentation**

13:00 *Lunch*

14:30 – 18:30 **Diseases at the global scale [Working Group Millennium Problems 1]**

Renato Casagrandi, *PoliMI, Dept. of Electronics, Information and Bioengineering*

**Sustainability indices [Working Group Millennium Problems 2]**

Giorgio Guariso, *Politecnico di Milano, Dept. of Electronics, Information and Bioengineering*

**Food availability [Working Group Millennium Problems 3]**

Lorenzo Genesio, *National Research Council (CNR), Institute of Biometeorology, Firenze*

**Ocean sustainability [Working Group Millennium Problems 4]**

Giulio De Leo, *Stanford University, Hopkins Marine Station*

**Thursday, May 8<sup>th</sup>**

09:00 – 10:15 **Vehicles technology and design**

Stefano Re Fiorentin, *Asja Board*

10:15 – 11:30 **Economics of global change**

Marzio Galeotti, *Università degli Studi di Milano, Dept. of Economics, Business and Statistics*

Hotel Villa Carlotta  
Via Mazzini 121/125  
28832 Belgirate (VB)

*Course Plenary Sessions*

Room 'Camelie & Azalee'  
(ground floor)

*USB Event*

Room 'Tigli & Quercie'  
(first floor)

- 11:40 – 13:00 **Working Groups presentation**  
 13:00 *Lunch*
- 14:00 – 18:00 **Life cycle assessment [Working Group Toward Sustainable Practices 1]**  
 Giovanni Dotelli, *Politecnico di Milano, Dept. of Chemistry, Materials and Chemical Engineering*  
 Paco Melià, *Politecnico di Milano, Dept. of Electronics, Information and Bioengineering*
- Renewable energy [Working Group Toward Sustainable Practices 2]**  
 Stefano Consonni, *Politecnico di Milano, Dept. of Energy*
- Design for sustainability [Working Group Toward Sustainable Practices 3]**  
 Silvia Barbero, *Politecnico di Torino, Dept. of Architecture and Design*
- Sustainable architecture [Working Group Toward Sustainable Practices 4]**  
 Giovanni Scudo, *Politecnico di Milano, Dept. of Architecture and Urban Studies*
- 18:00 UBS Event

### Friday, May 9<sup>th</sup>

- 08:30 – 09:45 **Energy saving in buildings**  
 Marco Masoero, *Politecnico di Torino, Dept. of Energy*
- 09:45 – 10:45 **The PolyGame – Introduction**  
 Massimo Tavoni, *Politecnico di Milano, Dept. of Management, Economics and Industrial Engineering*
- 11:00 – 13:00 **The PolyGame: Finding Sustainability Policies**  
 Renato Casagrandi, *Polimi, Dept. of Electronics, Information and Bioengineering*  
 Stefano Caserini, *Polimi, Dept of Civil and Environmental Engineering*  
 Stefano Consonni and Emanuele Martelli, *Politecnico di Milano, Dept. of Energy*  
 Giulia Fiorese, *Joint Research Centre, European Commission*
- 13:00 *Lunch*
- 14.30 – 15:30 **The PolyGame: Finding Sustainability Policies**  
 Renato Casagrandi, *Polimi, Dept. of Electronics, Information and Bioengineering*  
 Stefano Caserini, *Polimi, Dept of Civil and Environmental Engineering*  
 Stefano Consonni and Emanuele Martelli, *Politecnico di Milano, Dept. of Energy*  
 Giulia Fiorese, *Joint Research Centre, European Commission*
- 15:30 – 16:30 **PolyGame wrap up**
- 16:30 – 17:00 **Final Discussion**