



CICLE OF SEMINARS

'ENVIRONMENT AND ECONOMICS'

Dr. Elena Vallino

DIATI, Politecnico di Torino

14 January 2020

21 January 2020

28 January 2020

31 January 2020

4 February 2020

11-13 am, Sala riunioni DIATI 3 P1

The cycle of seminars can be included among the PhD courses, under the label "External Teaching Hard Skills". A participation certificate will be issued. Please confirm your participation to elena.vallino@polito.it

1) ENVIRONMENTAL ECONOMICS

- a) Pollution costs and benefits; externalities and inefficiencies; private solutions to externalities.
- b) Policies against pollution: environmental standards; emission taxes; tradable emission permits.
- c) Production, consumption and externalities: private/social benefits and costs.

2) ECONOMICS OF CLIMATE CHANGE

- a) Socio-economic impacts of climate change: the "Stern Review" and its critiques.
- b) Climate change and inequalities.
- c) Complexity of concepts of resilience, risk, vulnerability, adaptation, mitigation.
- d) *One day with a Nobel*: William Nordhaus, Nobel Price in Economics 2018. Climate change models.

3) GROWTH AND DEGROWTH

- a) GDP: what is included and excluded? GDP per capita and inequality.
- b) What is GDP growth? What is degrowth? The decoupling between GDP and CO2 emissions.
- c) Beyond GDP as indicator of wealth of a nation. Which alternatives?
- d) *One day with a Nobel*: Paul Romer, Nobel Price in Economics 2018. Engogenous growth theory.

4) SUSTAINABLE DEVELOPMENT

- a) Introduction to Green finance: financial sector reactions to climate change and new financial tools (Benedetta Falsetti).
- b) Brief history of development economics: from economic growth to sustainable development.
- c) Green economy and trajectories for sustainable development.

5) PUBLIC GOODS AND COMMONS

- a) Trade-off between environment protection and local development: case studies.
- b) Commons management: interaction between engineering and social sciences for a sustainable management of socio-ecological systems: example on irrigation systems.
- c) *One day with a Nobel*: Elinor Ostrom, Nobel Price in Economics 2009. Alternatives between public and private management of the commons: local communities.