

**Seminari di Primavera**  
**Corso di laurea in Chimica Industriale**  
**Dipartimento di Scienze Chimiche, Università degli Studi di Catania**  
**Venerdì 3 Maggio, ore 9.30, Aula A, e su piattaforma Teams**

Il Corso di Studi in Chimica Industriale, coordinato dal Prof. Placido Mineo, organizza un ciclo di seminari professionalizzanti con il coinvolgimento di studiosi ed esperti di diverse realtà scientifiche e produttive, chiamati ad illustrare i vari aspetti scientifici, tecnologici ed economici delle rispettive aree.

Il primo incontro sarà tenuto dal Dott. Luca Giannini ed avrà titolo:

***The Path to Sustainable Tyres: Innovative Materials as Sustainability Enablers***

*Luca Giannini\**

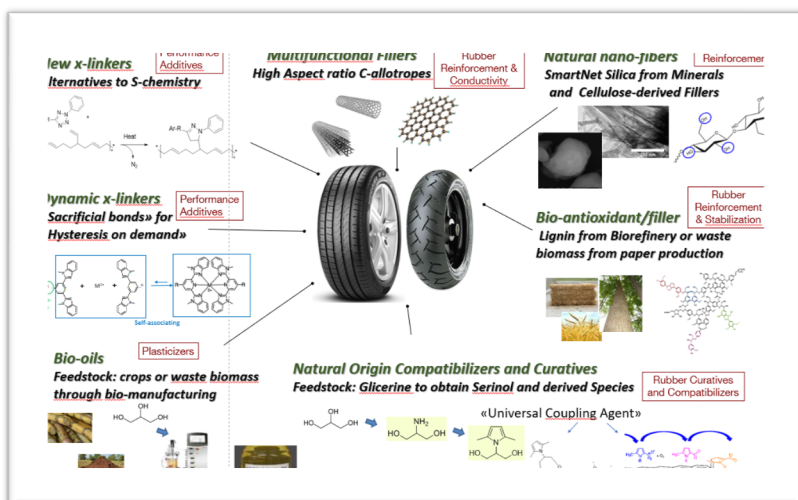
*Pirelli Tyre SpA*

[\\*luca.giannini@pirelli.com](mailto:luca.giannini@pirelli.com)

Tyres are complex engineered products integrating hundreds of raw materials and diverse technologies, whose development is driven by Legislation and Market, both pushing in the direction of higher and higher Sustainability.

Sustainability in Tyres has two main dimensions:

- 1) Tyres Footprint in LCA perspective => as part of road vehicles, tyres have significant Carbon footprint, especially in use phase through Rolling Resistance
- 2) Tyres Materials origin => there is a strong push to increase the amount of renewable and recycled raw materials in tyres



Innovative Materials support the quest for Sustainability in tyres through:

- 1) Materials from renewable feedstock with potential use as plasticisers, protective agents, curing and coupling agents.
- 2) New nanofillers, exhibiting a low environmental footprint and enabling the formulation of compounds with exceptionally low hysteresis.
- 3) Biopolymers from renewable sources, focussing on lignin and cellulose, through innovative approaches based on customised functionalization of the Biopolymers to allow their dispersion and compatibilization in the rubber matrix.

Link al seminario: [https://teams.microsoft.com/l/meetup-join/19%3ameeting\\_NDc2ZmEyYmItMzI1Yi00ZjRjLTNmMGQtZDA1NTJjNjUwNjgx%40thread.v2/0?context=%7b%22Tid%22%3a%22baeefbc8-3c8b-4382-9126-e86bfef46ce6%22%2c%22Oid%22%3a%22e1bfb198-b23d-4236-8132-ca79b5e7a45d%22%7d](https://teams.microsoft.com/l/meetup-join/19%3ameeting_NDc2ZmEyYmItMzI1Yi00ZjRjLTNmMGQtZDA1NTJjNjUwNjgx%40thread.v2/0?context=%7b%22Tid%22%3a%22baeefbc8-3c8b-4382-9126-e86bfef46ce6%22%2c%22Oid%22%3a%22e1bfb198-b23d-4236-8132-ca79b5e7a45d%22%7d)