

03
2016

NOON TALK @ DIATI

**Mercoledì 6 Aprile 2016
ore 13,00**

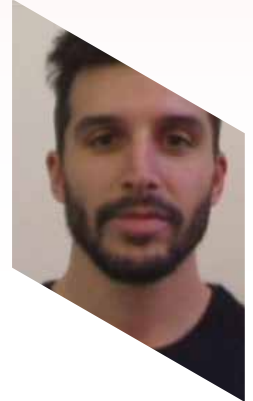
**Politecnico di Torino
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ingresso 3**



**POLITECNICO
DI TORINO**

Dipartimento di Ingegneria
dell'Ambiente, del Territorio
e delle Infrastrutture

**Alberto Tiraferri:
"Purifying water using membranes:
a personal view on the state of the
art and future perspectives"**



ABSTRACT

Membrane-based separation processes utilize semi-permeable membranes to remove solids, pathogens, and contaminants from water. Deployment of these technologies can help to sustainably increase the supply of potable, agricultural, and industrial water. Despite considerable development in the last decades, several design obstacles still hamper the progress of these processes. This presentation will review some recent work aimed at the improvement of polymeric membranes and at the optimization of the overall treatment system. In particular, we will focus on reverse osmosis and forward osmosis processes. Future directions will be also discussed in the light of the work carried out at DIATI.

BIOGRAFIA

Alberto Tiraferri holds a PhD from Yale University where he carried out research in the area of water and wastewater treatment by membrane-based processes. After his PhD, he was a Marie Curie fellow at the University of Geneva (Switzerland) where he studied adsorption mechanisms and environmental chemistry. He is Associate Professor at DIATI since March 2015. His current research focuses on environmental applications of nanomaterials and on the development of membrane technologies to help the reuse of wastewater and with the goal to efficiently increase the supply of water.

[Pagina web](#)
[Google Scholar](#)

Save the date for our next speaker-event, on May 4 2016, at 13:00.

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Please bring
your own mug.
Coffee and tea
will be
provided
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