



**LE UNIVERSITÀ
PER EXPO 2015**
COMITATO SCIENTIFICO
DEL COMUNE DI MILANO



**POLITECNICO
DI MILANO**

Milano



Comune
di Milano

POLIMI FOR EXPO: INTERNATIONAL RESEARCHERS POSTER SESSION

PIF team thanks: Scuola di Architettura &
Area Comunicazione e Relazioni Esterne,
Politecnico di Milano

POLIMI FOR EXPO: INTERNATIONAL RESEARCHERS POSTER SESSION

You are welcome / Sei benvenuto:

- **Poster Presentation: 7 May 17:00**
- Exhibition: 7-14 May 2015
- PATIO ARCHITETTURA, Via Ampère 2

PIF team & friends



www.eventi.polimi.it/#poster_session

POLIMI FOR EXPO:

7 May INTERNATIONAL

17:00 RESEARCHERS

POSTER SESSION

Polimi International research in DESIGN & HUMAN FACTORS **Irene Lia Schlacht** (Italian) Technische Universitaet Berlin

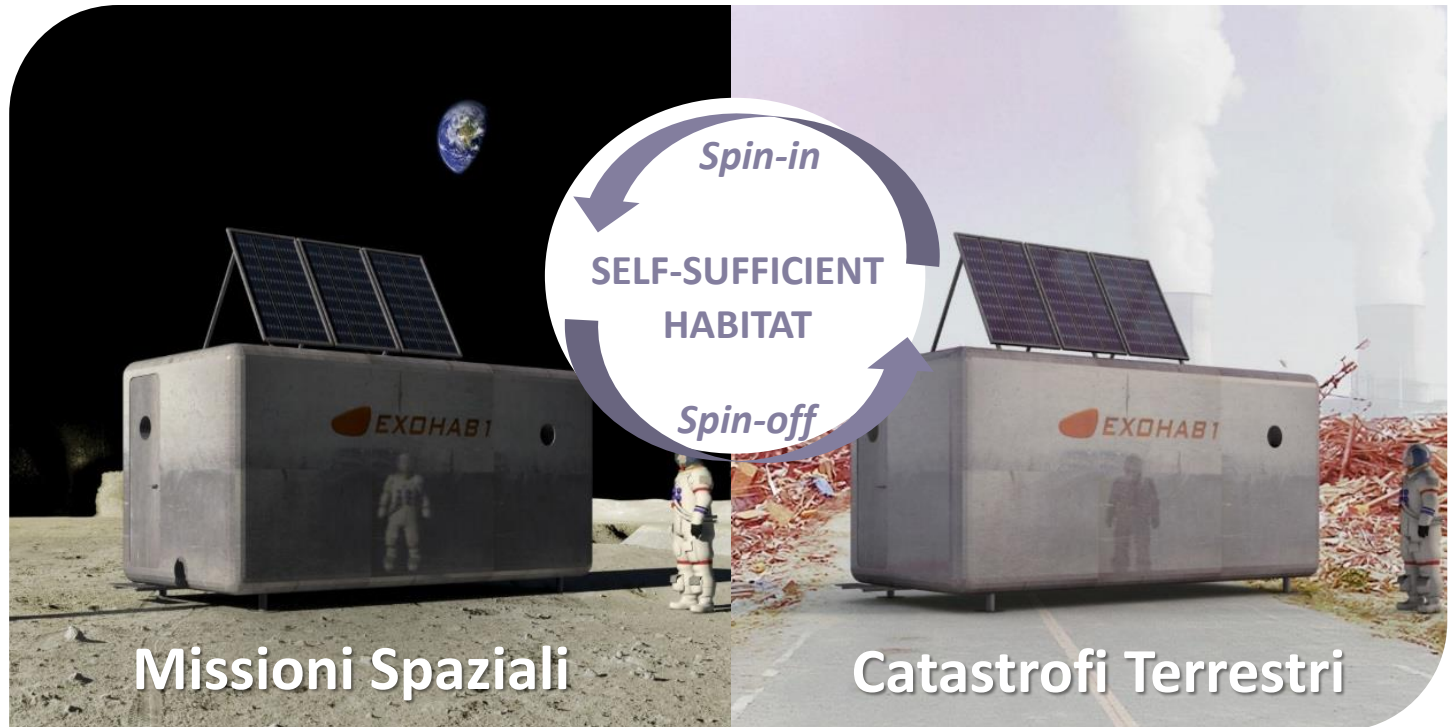
*From Space Station to Smart Houses:
Design for the transfer of sustainable habitat.*

POLIMI FOR EXPO:

7 May INTERNATIONAL

17:00 RESEARCHERS

POSTER SESSION



Polimi International Researcher in DESIGN & EDUCATION **Chawchen Ting (Ding)** (Taiwanese) Beijing Institute of Fashion Technology

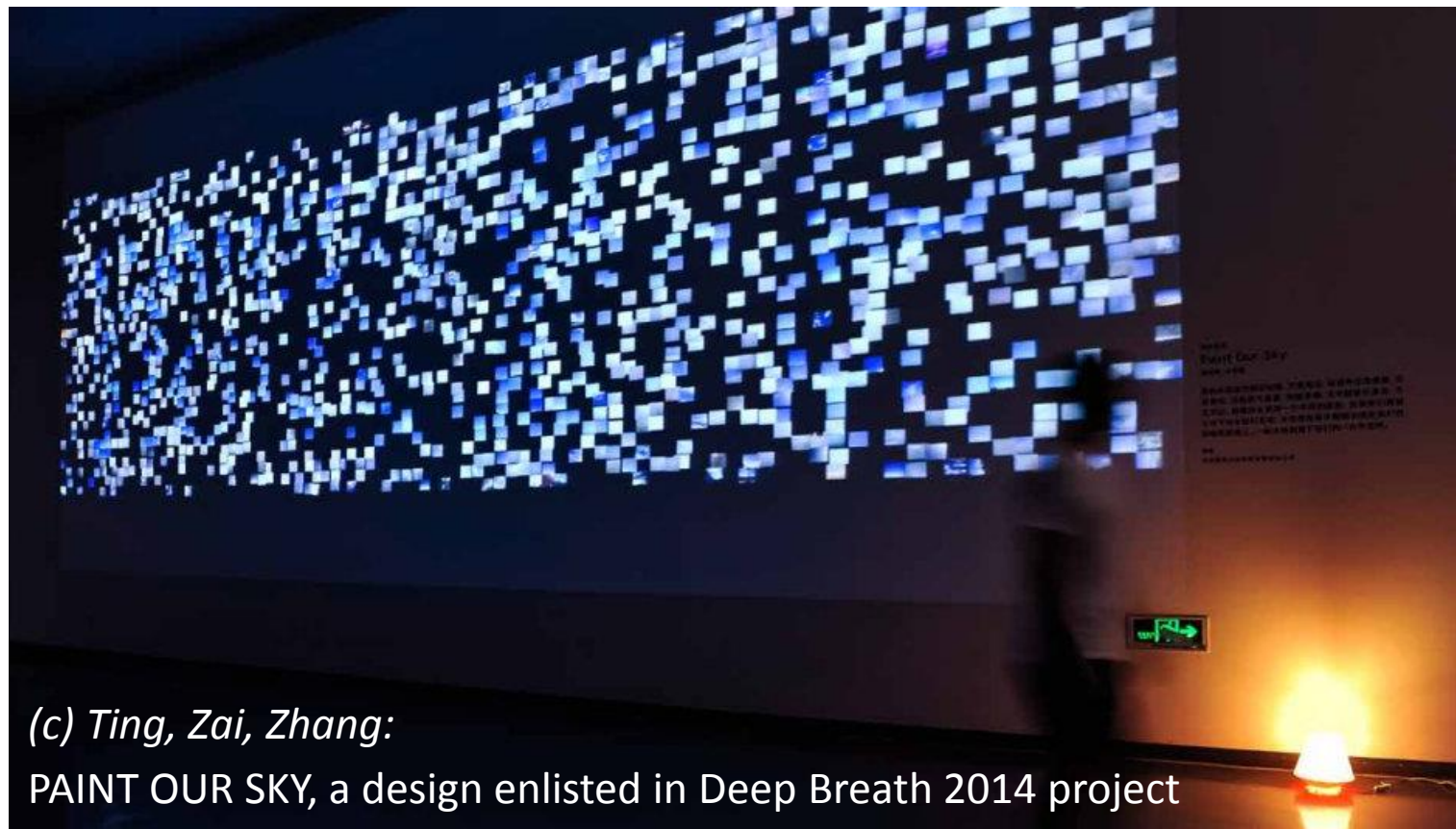
*Mind Your Deep Breath: communicating
pollution issues in China through visual artifacts.*

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7 May INTERNATIONAL

17:00 RESEARCHERS

POSTER SESSION



(c) Ting, Zai, Zhang:

PAINT OUR SKY, a design enlisted in Deep Breath 2014 project

Polimi International Researcher in DESIGN & ARCHITECTURE **Stephan Jung** (German) Politecnico di Milano

POLIMI FOR EXPO:

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17:00 RESEARCHERS

POSTER SESSION

Urban Acupuncture: the widespread improvement of the urban habitat through the use of integrated micro-devices.

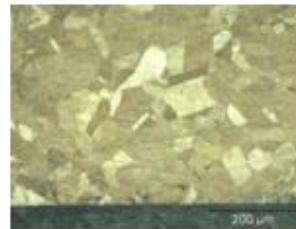


Polimi International Researcher in MECHANICAL ENGINEERING

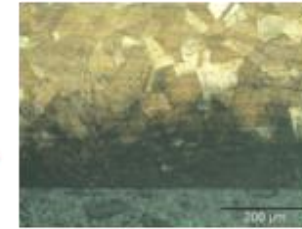
Sara Bagherifard (Iranian)

Politecnico di Milano

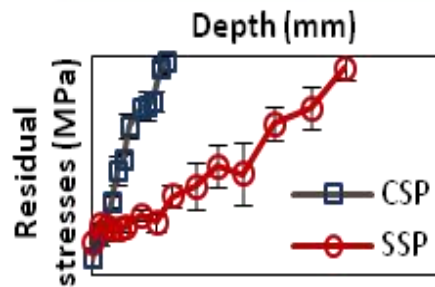
Bio-Functional Nanomaterials: Nanostructured severely shot peened stainless steel with selective behavior towards Bacteria and Bone Cells.



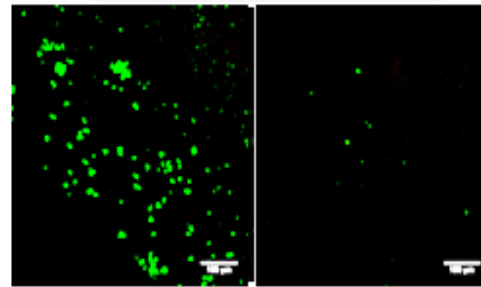
Grain Refinement



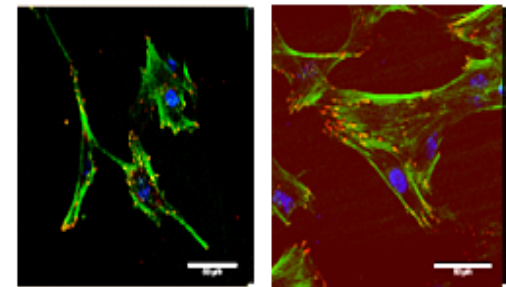
Improved
Mechanical Properties



Decreased Bacterial
Adhesion



Enhanced
Cell Functions



Polimi International Researcher in CHEMISTRY *Masoumeh Meskinfam Langroudi (Mahnaz)* (Iranian)

Islamic Azad University, Lahijan branch, Iran

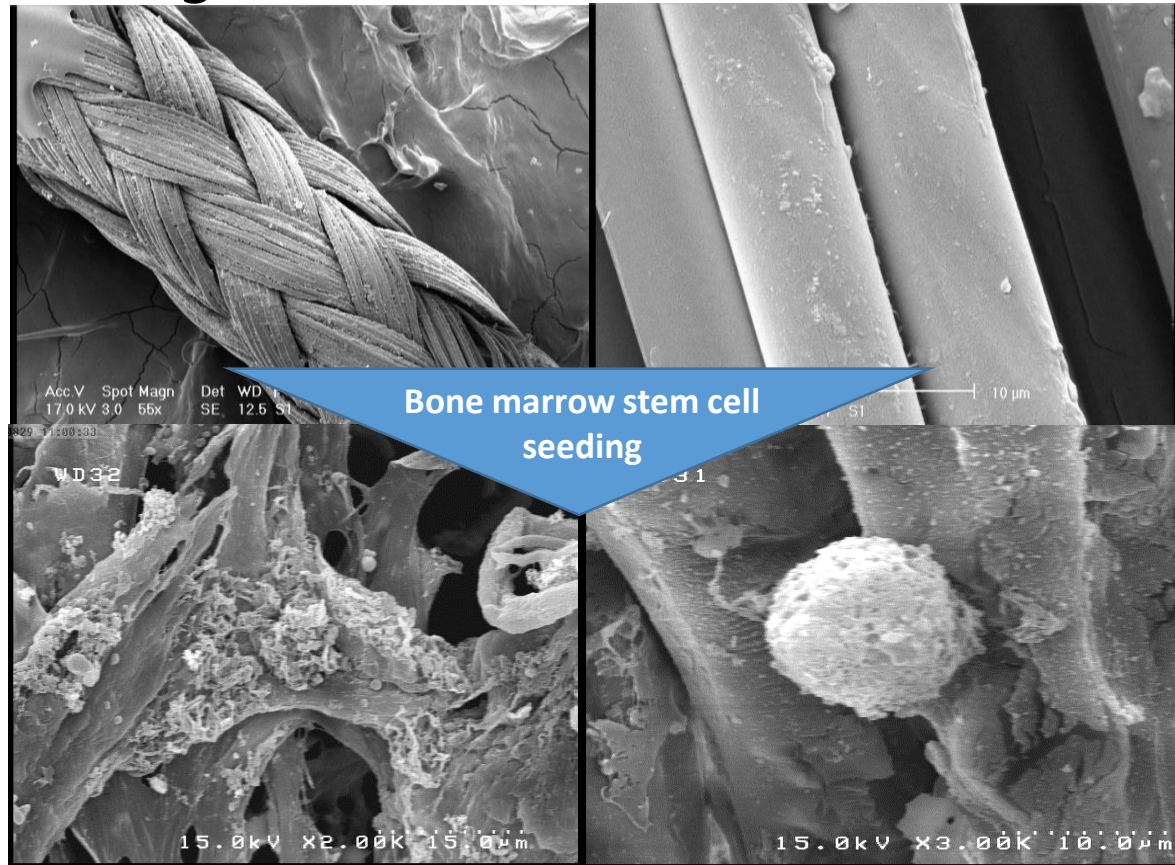
*Biomaterial: Designing novel hybrid scaffold
for bone regeneration*

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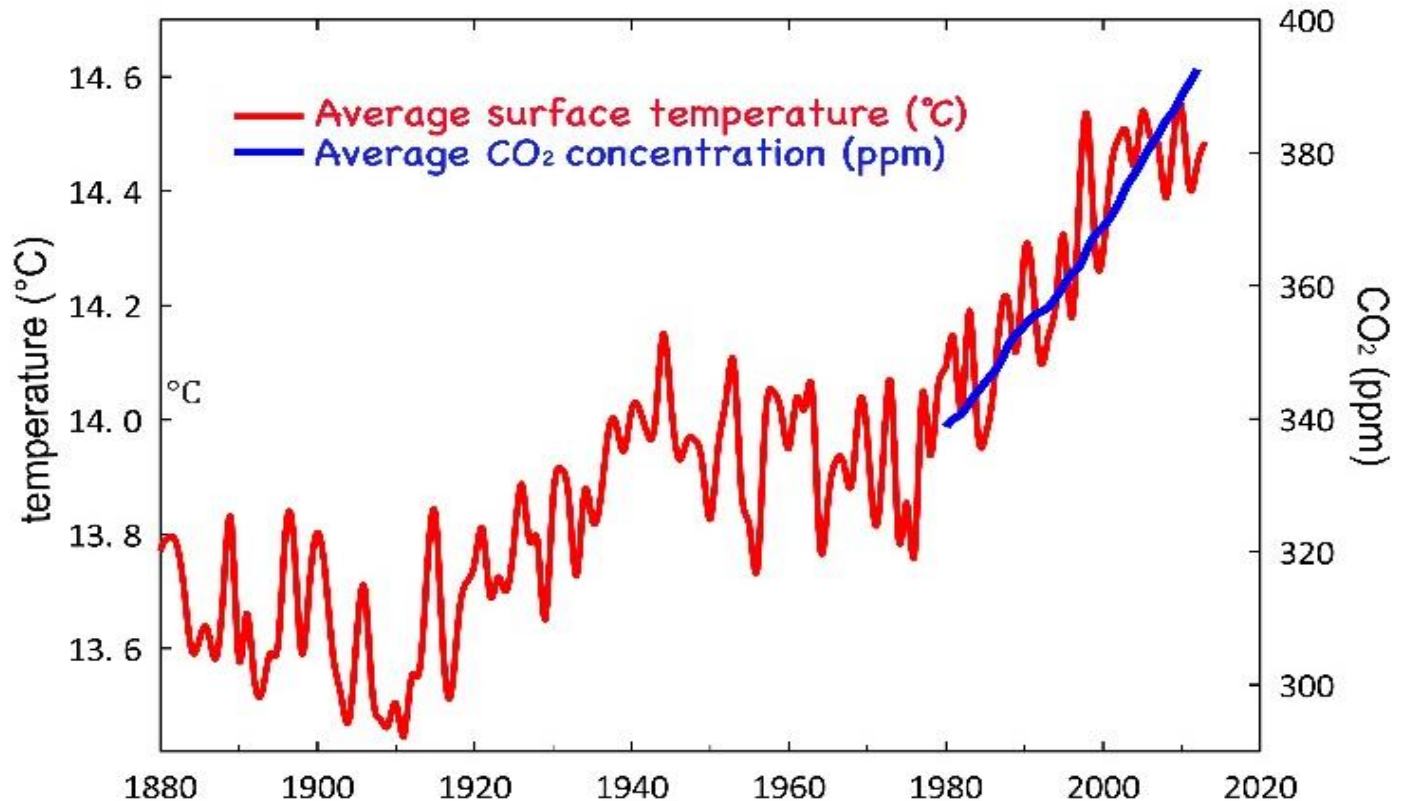
17:00 RESEARCHERS

POSTER SESSION



Polimi International Researcher in ENVIRONMENT SCIENCE & ENGINEERING **Fenjuan Wang** (Chinese) National Climate Center

*Climate change:
A warming earth from past to further*

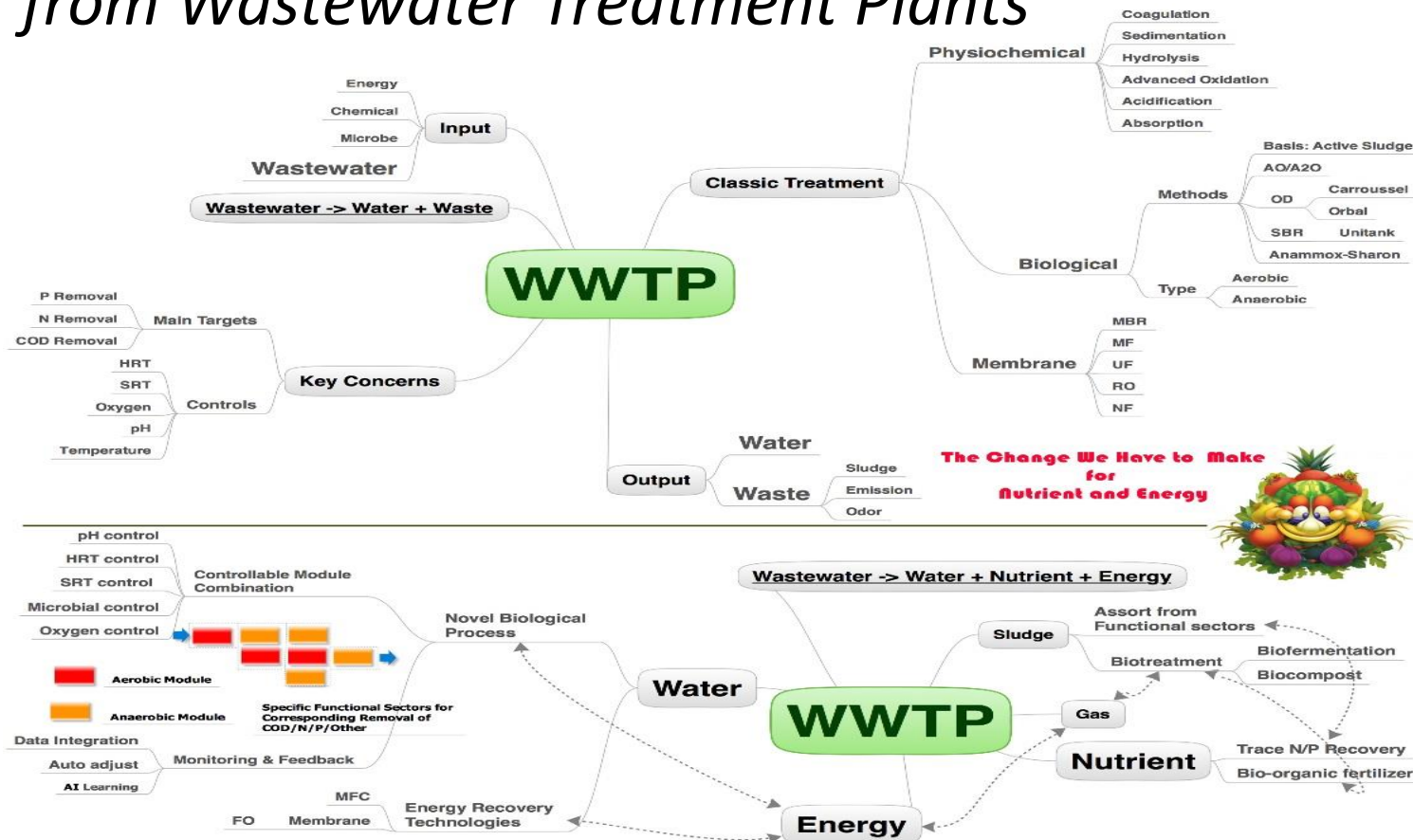


Polimi International Researcher in CIVIL & ENVIRONMENTAL ENGINEERING

Zhenyi Zhang (Chinese)

Tsinghua University

Nutrient & Energy Recovery from Wastewater Treatment Plants



Polimi International Researcher in
URBAN STUDIES

Ifigeneia Kokkali (Greek)

Institut Français d'Urbanisme, Uni. Paris-Est

Unpacking urban diversity: insights from Milan

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RESEARCHERS

17:00

POSTER SESSION

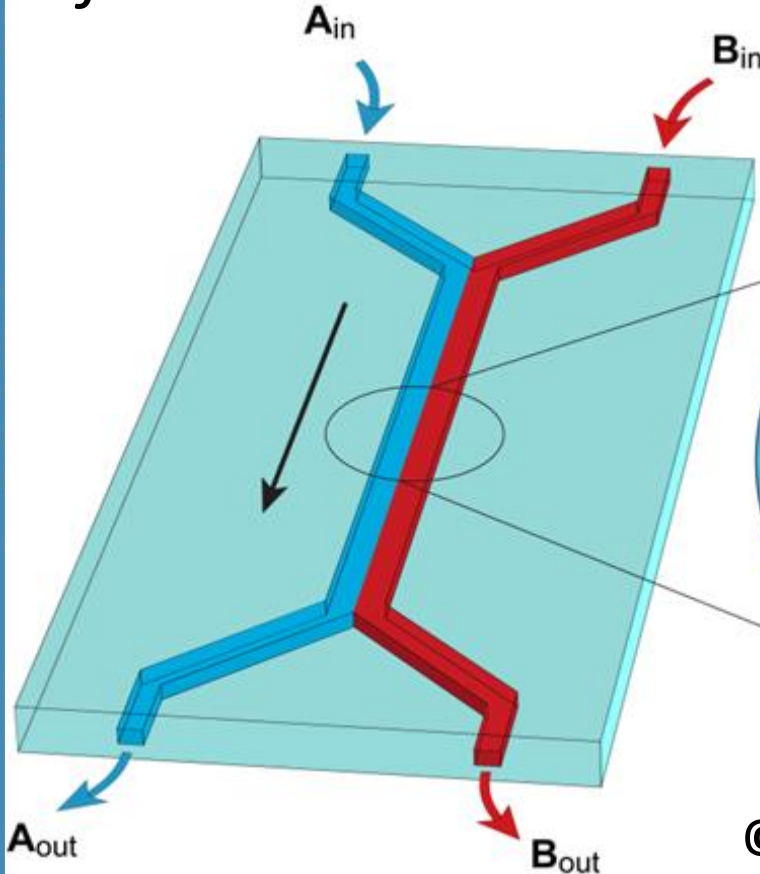


Polimi International Researcher in PHYSICS

Eaton Shane (Canadian)

University of Toronto, Canada

*Ultrafast laser fabrication of green microdevices
for environmental sustainability*



*Microfluidic bi-channel
network formed
by femtosecond
laser featuring
a laminar flow
of donor &
acceptor
solutions,
where
photoinduced
electron-transfer
processes at the
interface is optimized.*

©Bharadwaj, Lopes, Vázquez, Eaton

POLIMI FOR EXPO:

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17:00 RESEARCHERS

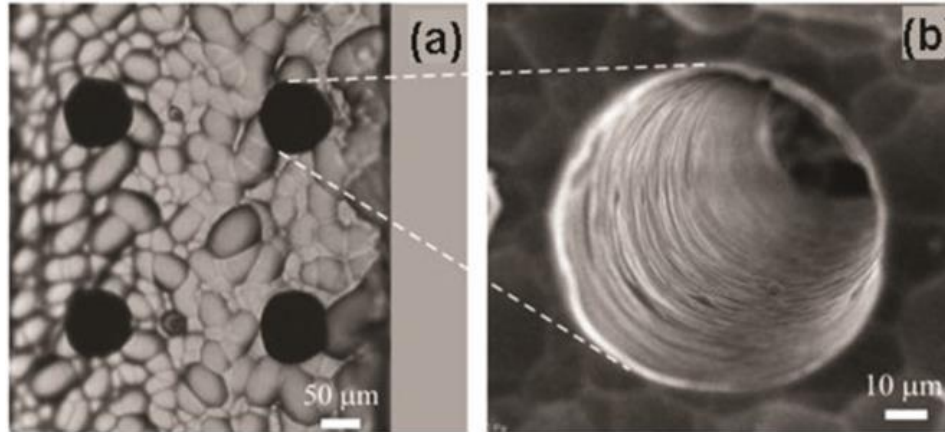
POSTER SESSION

Polimi International Researcher in PHYSICS

Surya SK Guduru (Sameer) (Indian)

Center for Nanoscience and Technology

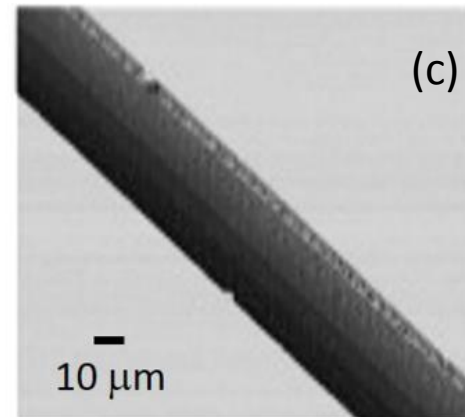
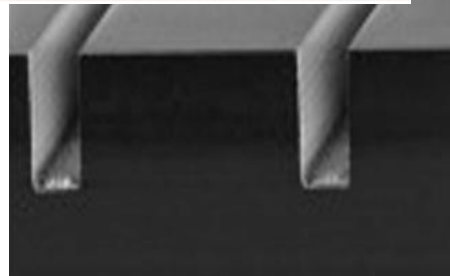
Femtosecond laser micromachining of optical components and microfluidic structures for wavelength selective light harvesting in lab- on- chip applications.



*Buried
microchannels
(a),(b) and surface
microchannels (c)*

*formed by femtosecond
laser irradiation followed
by chemical etching.*

© Guduru, Eaton



Polimi International Researcher in PHYSICS

Toney Teddy Fernandez (Indian)
Mahatma Gandhi University, India

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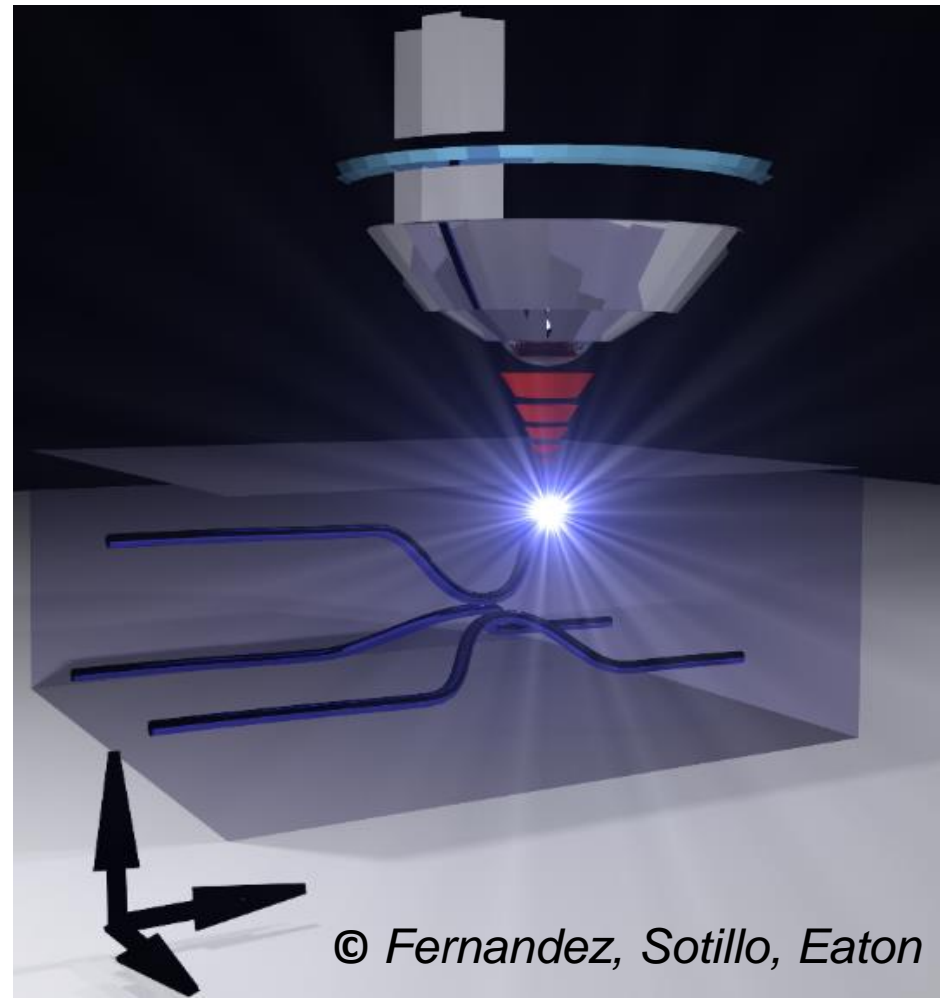
RESEARCHERS

17:00

POSTER SESSION

*3D femtosecond
laser
microfabrication
for telecom &
bio-sensing
applications*

*Focused femtosecond
laser pulses are used to
write optical waveguides
in 3D geometries for
telecom and bio-sensing
applications.*



© Fernandez, Sotillo, Eaton

Polimi International Researcher in PHYSICS

Vikas Kumar (Indian)

Devi Ahilya University, Indore, India

POLIMI FOR EXPO:
7 May
17:00
POSTER SESSION

Coherent Raman Microscopy for Biomedical applications

