

# MATCHAREXPO

## Community

Issue 1 - 2023

### Newsletter

Issue 2023

#### MatCharEXPO community

Welcome to the 1st edition of the MatCharEXPO community newsletter linked to the MatCharEXPO platform. This community platform has been developed and managed by Cambridge Nanomaterials Technology Ltd (CNT Ltd), and its Brussels based sister company CNT Innovation, with the aim to support commercialization of the materials characterisation, instrumentation, procedures, and data management.

This community gives its members, the opportunity to learn about progress in the development in materials characterisation and data environment, through the different annual workshops and newsletters. It also provides a platform to exchange experience and discuss issues in materials characterization and data management, between technology developers in industry and researchers in academia.

You could become part of our exclusive virtual community and increase your visibility and business growth opportunities by joining the key market players and vibrant industrial decisionmakers, technology developers and investors.

This is an area to showcase your organisation, products and services on your dedicated virtual EXPO booth. If you are interested in becoming a community member and exhibiting at the MatCharEXPO please send an email to: [info@CNT-LTD.co.uk](mailto:info@CNT-LTD.co.uk)



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[www.matcharexpo.net](http://www.matcharexpo.net)

## MatCharEXPO and Workshop

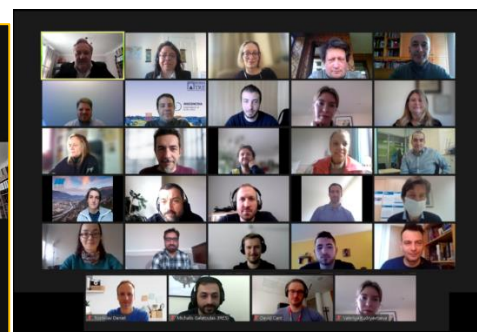
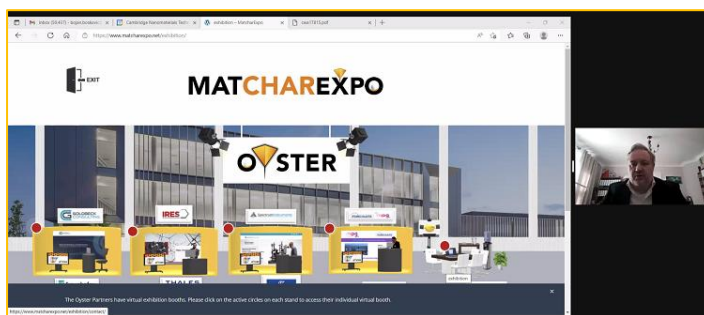
The MatCharEXPO & Conference are meetings held in order to support commercialisation of the materials characterisation.

The MatCharEXPO & Conference gives the opportunity to learn about progress in the development of technologies related to Open characterisation and modelling environment to drive innovation in advanced nano-architected and bio-inspired hard/soft interfaces, through the different annual conferences. It also provides a platform to exchange experience and discuss issues in materials characterization and data management,

between technology developers in industry and researchers in academia.

These events are being organised yearly, in person and/or online. The majority of attendees to these events comes from the industry. For more information on past events, visit the Workshops page

The MatCharEXPO & CONFERENCE has been developed during the H2020 funded project OYSTER. Following the end of the project in 2022, the MatCharEXPO & CONFERENCE Community has been open to the partners outside the OYSTER Project.



## Oyster CEN-CENELEC CWA

The Materials characterisation – Terminology, metadata and classification paper (CWA17815:2021), published by CEN, with the contribution of the OYSTER Project. This document gives the foundations for a wider adoption of the CHADA principle by other projects and stakeholders. You could access the paper, [following this link](#).

## News from the Community



[www.uniroma3.it/en/](http://www.uniroma3.it/en/)

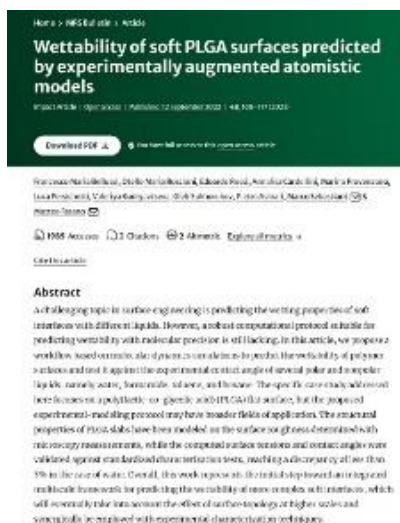
To visit Roma Tre University virtual EXPO booth, click the picture, or follow the link below:

[www.matcharexpo.net/roma-tre/](http://www.matcharexpo.net/roma-tre/)



## New publications from UniRoma3

Since the end of the OYSTER Project, Roma Tre University has published a couple of new articles, one in the MRS Bulletin, published on the 12 September 2022. The article is titled: Wettability of soft PLGA surfaces predicted by experimentally augmented atomistic models (*Francesco Maria Bellussi, Otello Maria Roscioni, Edoardo Rossi, Annalisa Cardellini, Marina Provenzano, Luca Persichetti, Valeriya Kudryavtseva, Gleb Sukhorukov, Pietro Asinari, Marco Sebastiani & Matteo Fasano*).



A second article was published in the Materials & Design newsletter (Volume 221, September 2022, 110972). The publication is titled: Effect of annealing on mechanical properties and thermal stability of ZrCu/O nanocomposite amorphous films synthesized by pulsed laser deposition (*Francesco Bignoli, Saqib Rashid, Edoardo Rossi, Sahar Jaddi, Philippe Djemia, Giancarlo Terraneo, Andrea Li Bassi, Hosni Idrissi, Thomas Pardoen, Marco Sebastiani, Matteo Ghidelli*). To read these publications, visit the RomaTre virtual expo following the link above.



Abstract





[www.elveflow.com](http://www.elveflow.com)

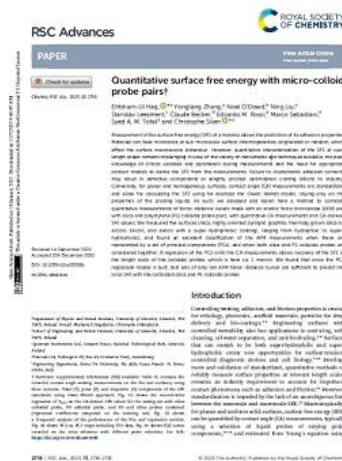
To visit University of Limerick virtual EXPO booth, click the picture, or follow the link below:

[www.matcharexpo.net/university-of-limerick/](http://www.matcharexpo.net/university-of-limerick/)



## A new publication from University of Limerick

After the finalization of the OYSTER Project, the University of Limerick (partner of the project), has publish a paper at the Royal Society of Chemistry. The title of the paper is: Quantitative surface free energy with micro-colloid probe pairs. This paper can be accessed through their virtual desk (link above).



<https://areeweb.polito.it/ricerca/small/>

To visit Politecnico di Torino virtual EXPO booth, click the picture, or follow the link below:

[www.matcharexpo.net/politecnico/](http://www.matcharexpo.net/politecnico/)



## Publications from the Politecnico di Torino

The Politecnico di Torino has published in the Science Direct Journal, a couple of papers related to their work in the OYSTER Project. The papers are: Experimentally validated phase-field model to design the wettability of micro-structured surfaces (Marina Provenzano a, Francesco Maria Bellussi a, Matteo Morciano a, Edoardo Rossi b, Mario Schleyer c, Pietro Asinari a d, Thomas Straub c, Marco Sebastiani b, Matteo Fasano); and, Method for predicting the wettability of micro-structured surfaces by continuum phase-field modelling

(Marina Provenzano a, Francesco Maria Bellussi a, Matteo Morciano a, Pietro Asinari a b, Matteo Fasano). The publications are accessible through their virtual desk (link above).



[www.nanoforce.co.uk](http://www.nanoforce.co.uk)

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[www.matcharexpo.net/nanoforce/](http://www.matcharexpo.net/nanoforce/)



## A PhD and publication achieved with support from the OYSTER Project

With the support of the OYSTER project, Valeriia Kudriavtceva from NANOforce, successfully passed her PhD Viva, in the summer of 2022. Her PhD was on "Elaboration of biodegradable printed microcapsules and microchambers: versatile microencapsulation approach for drug delivery applications".

Dr Valeriia Kudriavtceva was also one of the authors of a paper titled: Printed asymmetric microcapsules: Facile loading and multiple stimuli-responsiveness (Valeriya Kudryavtseva a b, Anton Bukatin c d, Ekaterina Vyacheslavova c, David Gould e, Gleb B. Sukhorukov). This paper was published at the Biomaterials Advances (Volume 136, May 2022,

212762). To read about this paper, visit their virtual EXPO at the link above.



## Join the community!

Membership to the MatCharEXPO will give you the opportunity to have a unique virtual booth, designed according to your particular needs. Your exhibition booth will be part of our virtual exhibition space,

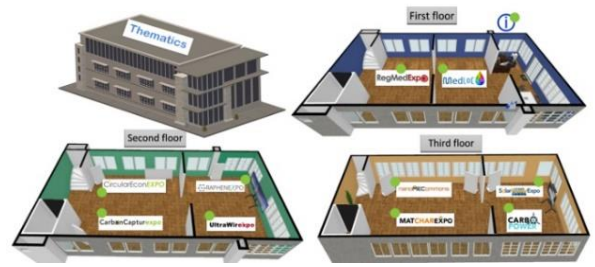
which has hundreds visits per year from the MatCharEXPO community. This virtual area will be also available to be accessed through our dedicated umbrella platform of EXPO websites, receiving

thousands of visits per year, nanoMATexpo [www.nanomatexpo.net](http://www.nanomatexpo.net)

You would be invited to participate, present and exhibit at our unique style industry dominated workshops, dedicated to assisting commercialisation of new technologies and network with technology development and commercialisation leaders.

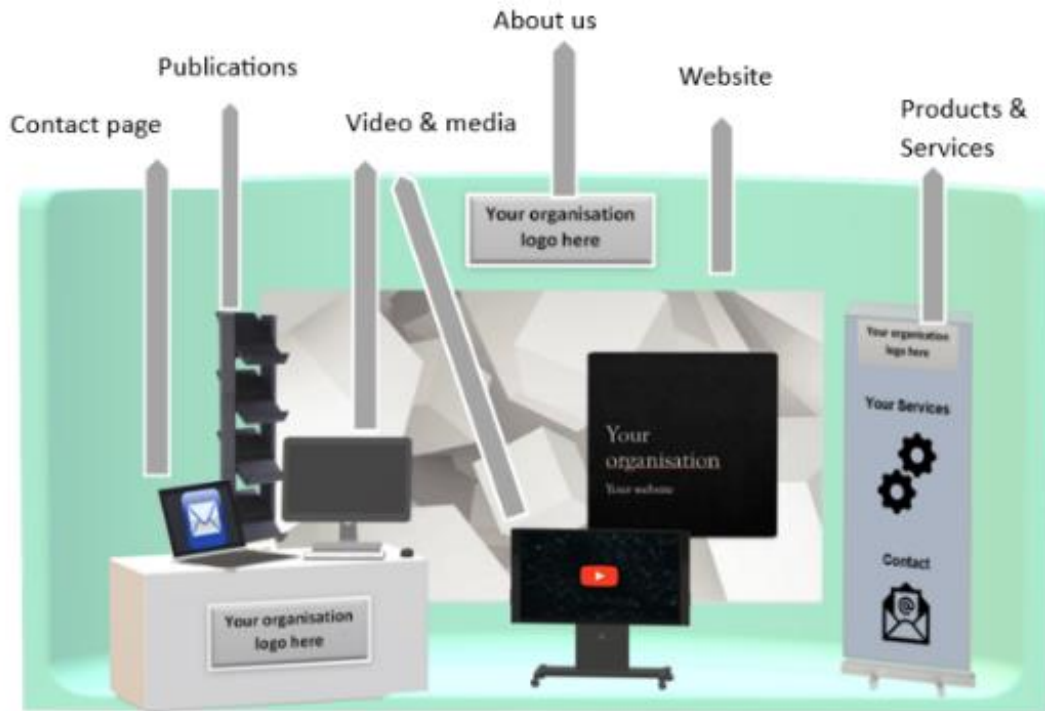
You will receive support from our library of information, with innovative technology solutions, market and patenting trends, and partnership opportunities.

We would use our annual newsletter, to support and promote your organisation.



NanoMatEXPO Platform

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