



105th IUVSTA Workshop



Characterization of gas transport through materials: applications to Vacuum Science and Technology



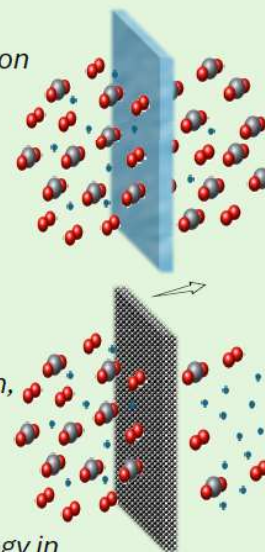
October 21st - 24th, 2025
 Santa Margherita Ligure – Portofino, Italy.

The workshop includes

Invited lectures from the lead experts - contribution talks - panel discussion and tentative conclusions on open questions encouraging collaboration and exchange

Topics

- **Gas transport models in dense and porous materials**
 - *Convective and Knudsen flow, surface diffusion, solution-diffusion and pore flow models, sorption and desorption at surfaces*
- **Applications**
 - **Vacuum Science and Technology**
 - *Insulations, Components characterization, Outgassing*
 - **Membranes & Thin Films Technology**
 - *Gas barriers and gas sensors, Food packaging, Gas separation, CO₂ capture and H₂ storage*
 - **Apparatus for gas transport quantities measurements**
 - *State of the art and the contributions of high vacuum technology in developing new instrumentations*



Vacuum
Science and
Technology

**GAS TRANSPORT THROUGH
MATERIALS**

Membranes
Science and
Technology

FOR PARTICIPATION AND REGISTRATION DETAILS:

<https://www.aiv.it/en/workshop>



We are looking forward to welcoming you in Santa Margherita Ligure
 Please save the date!