Institut Matériaux Microélectronique Nanosciences de Provence

Difsol3 School on diffusion in solids 2026

17-22 May 2026
La Londe les Maures, France

Difsol3

Objectives

Following the first two editions in 2015 and 2020, on May 17 to 22, 2026, IM2NP is organizing a school on diffusion in solids. This school will provide an opportunity to review the basics of diffusion and also to present recent advances in this field. The school will cover various aspects of diffusion: mechanisms, phenomenological laws, diffusion paths, etc. The specific characteristics of diffusion in different types of materials (metals, semiconductors, oxides, intermetallics) will be detailed. Current experimental methods and recent developments in simulations (kinetic Monte Carlo, ab initio, , etc.) and modeling (concentrated alloys) will also be discussed. Finally, examples of diffusion-based applications will be presented. This school will promote exchanges between academics and industrialists, researchers, engineers, and students in the field of diffusion in solids.
The lectures will be in English to have an international school

General Information

Location

Résidence Odalys
395 Bd Plage de l'Argentière,
83250 **La Londe-les-Maures**

Registration

The number of places is limited and registrations are taken in order of arrival and payement. Registrations website:
https://difsol3.sciencesconf.org/
Registration on the website is a three-step process:
Step 1: Pre-registration
Step 2: Validation
Step 3: Final registration and payment
Payment by credit card is preferred but purchase order are possible for public laboratories.

Fee including accomodation

Registration	Fee
Students (double room)	800 €
Academics	950 €
Industrials	1200 €

These fee include full board accommodation and classes.
Registration fees are free for CNRS staff and lecturers
Registration will start in January 2026

For more informations:

Contact :
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School on diffusion in solids
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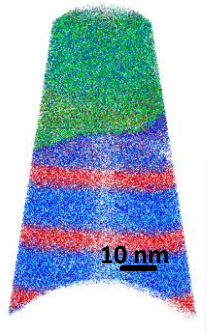


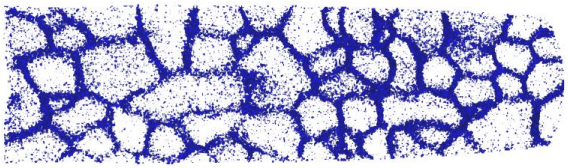
Atomic probe tomography highlighting the agglomeration of NiSi

Organizing Committee

IM2NP: Ian Amedeo, Alain Escoda, Bismiya Chakkalakunnan, Mohamed Charai, Matteo Devaux, Fanny Gay, Christophe Girardeaux, Joelle Kafando, Yves Klein, Dominique Mangelinck, Sruthi Mohan, Alain Portavoce, Leslie Scala

Scientific Committee

Hartmut Bracht(U. Munster, Germany)
Sergiy Divinski (U. Munster, Germany)
Dominique Mangelinck (IM2NP, France)
Maylise Nastar(CEA: SRMP, France)
Alain Portavoce (IM2NP, France)
Aloke Paul(IIS C, India)



Atomic probe tomography highlighting the diffusion of Pt at grain boundaries in a thin film of Ni_2Si.

Schedule

	Monday 18th May
9h30-9h45	General introduction: Dominique Mangelinck (IM2NP-Marseille)
9h45- 11h15	Diffusion Mechanisms & Experimental. Alain Portavoce (IM2NP-Marseille)
11h15-12h	Techniques for semiconductors . Hartmut Bracht (U. Munster /Germany)
	Lunch
14h30-16h	Tracer diffusion in metallic solids: from pure metals to high-entropy alloys. Sergiy Divinski (U. Munster /Germany)
16h30-18h	Diffusion in semiconductors : Hartmut Bracht (U. Munster /Germany)
18h-18h45	Flash presentations*
	Tuesday 19th May
8h30- 10h	Diffusion in ionic solids and polymers : Philippe Knauth (Madirel-Marseille)
	Break+ Poster**
10h30-12h	Recent advances in experimental methods for estimation of diffusion coefficients in multicomponent systems. Aloke Paul (Indian Institute of Science, Bengaluru, India)
	Lunch
15h-15h45	Flash presentations*
15h45-16h30	Diffusion and high temperature oxidation kinetics in metallic alloys: Daniel Monceau (CIRIMAT-Toulouse)
17h-18h30	Short-circuit diffusion in metals: dislocations, grain- and interphase boundaries. Sergiy Divinski (U. Munster /Germany)
	Wednesday 20th May
8h30-10h15	Computing transport coefficients from the atomic scale: Thomas Schuler (SRMP-CEA-Saclay)
	Break + Poster**
10h45-12h30	The Onsager formulation: a framework for diffusion, flux coupling and nanoscale diffusion: M. Nastar (SRMP-CEA-Saclay)
14h-18h	Social activities

	Thursday 21th May
8h30-10h	Diffusive Phase Transformations: Benoit Appolaire (IJL-Nancy)
	Break + Poster**
10h30-12h	Thermal stability of thin solid films (dewetting) and interface diffusion: Eugen Rabkin (Technion, Haifa, Israel)
	Lunch + Poster**
15h-16h30	Modelling diffusion in multicomponent alloys: methods and applications to high temperature materials. Thomas Gheno (ONERA)
17h-18h30	Calculation of transport coefficients with KineCluE (TP): Thomas Schuler (SRMP-CEA-Saclay)***
	Friday 22th May
8h30- 9h15	Diffusion under stress: Philippe Maugis (IM2NP, Marseille)
9h15 – 10h	Diffusion in nanometric multilayer. Marie Loyer-Prost (CEA, Saclay)
	Break + Poster**
10h30-11h15	Reactive diffusion. Dominique Mangelinck (IM2NP-Marseille)
11h15-12h	Diffusion Path Concept and its use to analyze and predict reaction layer sequence. Olivier Dezellus (LMI-Lyon)

* Flash presentations : Participants are invited to present their research topics during the session on May 18th. Posters will also be presented.
** Posters session will take place during the breaks
***The practical session “Calculating transport coefficients with KineCluE” on Thursday, May21, is optional.

Beach « L'Argentière » at Londe-les-Maures

The Speakers

Benoit Appolaire (IJL)

Hartmut Bracht (U. Munster)

Olivier Dezellus (U. Lyon: LMI)

Sergiy Divinski (U. Munster)

Thomas Gheno (ONERA)

Philippe Knauth (Madirel)

Marie Loyer Prost CEA: Saclay

Dominique Mangelinck (IM2NP)

Philippe Maugis (IM2NP)

Daniel Monceau (CIRIMAT)

Maylise Nastar (CEA: SRMP)

Aloke Paul (IISc, India)

Alain Portavoce (IM2NP)

Eugen Rabkin (Technion, Israel)

Thomas Schuler (CEA: SRMP)