

Sujet : [GDR-NAME] News Letter june 2025 GDR NAME

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Date : 25/06/2025, 14:24

Pour : GDR NAME <gdr-name@services.cnrs.fr>

GDR-NAME Summer Newsletter

June, 2025



EDITO

Dear GDR members

This Newsletter is particularly rich in information. First, we are happy to announce that two thesis prices have been awarded to Lucile Feger (GREMAN Lab) and Silvére Panisset (LMGP Lab), congratulations to them. Interlab projects have been also chosen for INL, ILM and NEEL labs helping to initiate fruitful collaborations.

The coming six month will be full of nice events among which we will find



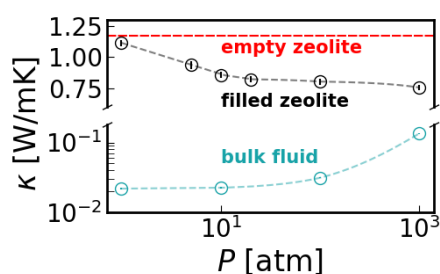
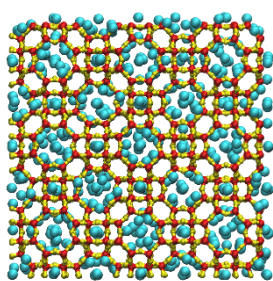
the plenary days of the GDR NAME at Saclay, JNTE (Journées Nationales de Thermoélectricité) in Blois, and CARMEN days (ChAlcogénures - nanoMatériaux - enErgie - iNterfacE) organized by GDR NAME and CHALCO. We recommend massive participation to all these events.

Finally, don't forget to vote for "Comité National" (deadline 26th of June), the structuration of our scientific community is essential to stay attractive to young researchers.

We wish you all a nice summer time, get some break if you can !

[LINK](#)

IMAGE OF THE MONTH



Thermal Conductivity of a Fluid-Filled Nanoporous

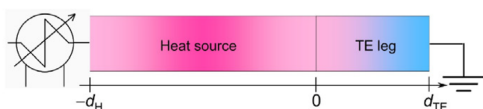
Material

We conducted a molecular simulation and theoretical study to investigate how fluid adsorption in nanoporous materials affects the overall thermal conductivity, unveiling the "rattle" mechanism leading to lattice heat transport attenuation due to fluid-phonon scattering at the interface.

See Ferreira de Souza et al The Journal of Physical Chemistry B 128, 2516 (2024)

[LINK](#)

Scientific highlight



Efficiency in energy harvesting

Dynamic thermoelectric generation enables 50% increase of efficiency at maximum power", D. Narducci, F. Giulio, A. Mazzacua, **Materials Today Physics** 54 (2025) 101713

[Link](#)

GDR-NAME NEWS

Comité National election CoNRS

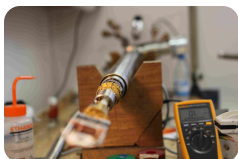


CoNRS election 2025

Don't forget to vote (until June 26) if you are either a CNRS agent or a university professor. Several active GDR-NAME members are standing for election or re-election to the CoNRS for the 3 institutes: Engineering, Physics, and Chemistry. Check your institutional email address @cnrs.fr or @university for instructions.

[LINK](#)

Interlab projects and thesis price of the GDR have been awarded



Interlaboratory project 2025

The inter-laboratory projects have been selected by the steering committee (Konstantinos termentzidis, Giorgia Fugallo, Nicolas Stein). Two projects will be financed:

1. Aleksandra Apostoluk of INL, with a project on Comparison of optical and electrical properties of ZnSnN₂ layers deposited by different sputtering modes (DC, RF) for application in optoelectronic devices.

2. Samy Merabia (ILM) - Olivier Bourgeois (Neel), for an internship on "Thermal conductivity of DNA molecule junctions"

[LINK](#)



Thesis price 2025

The thesis prizes for 2025 have been awarded to **Lucile FEGER (GREMAN)** et **Silvère PANISSET (LMGP)**, **congratulations to them**. Below you'll find more details about their thesis work.



Heat flux as a new information vector

What if heat became the new current? Her work explores the thermal conductivity of the ferroelectric material BaTiO_3 in various forms and under an electric field, contributing to the development of phononics, which harnesses phonon flux as carriers of information.

The thesis work "Contrôle de la conductivité thermique par un champ électrique dans BaTiO_3 et ses dérivés" has been done at GREMAN Tours by Lucile FEGER.



Emerging oxygen ion battery technologies

This thesis focuses on the design and optimization of nano-engineered thin film oxygen electrodes (≤ 1000 nm) based on $\text{La}_2\text{NiO}_{4+\delta}$ and $\text{LaPrNiO}_{4+\delta}$, deposited by PI-MOCVD. Combining advanced characterization, modelling, and novel *in situ* diagnostics, the work



advances their application in micro solid oxide cells and explores their potential in emerging oxygen ion battery technologies. More details with Silvère PANISSET thesis work: Electrodes à Oxygène en Couches Minces Nano-structurées pour Dispositifs Electrochimiques à Oxyde Solide : Optimisation du Dépôt, Caractérisation et Modélisation at LMGP Grenoble.

GDR-NAME Events



SAVE THE DATE !!! Next Plenary meeting of the GDR NAME will be held at C2N Paris Saclay on the 12-14th of November 2025

The next Plenary days of the GDR NAME will take place from November 12 to 14, 2025 in Palaiseau, on the premises of the Centre de Nanosciences et de Nanotechnologies on the Paris Saclay campus.

The program will cover the following topics

- Energy conversion at small scales
- Synthesis, characterization and simulation of nanomaterials
- Nanoscale transport
- Electrochemical energy storage

The event will include: Invited presentations, Oral and poster presentations and presentation of GDR thesis awards.

[LINK](#)

ANNOUNCEMENTS

Events, schools, Conferences, workshop etc...!!!



Ecole Thématique SALAD



GDR
RAFALE

Groupe
de recherche



27 to 30th of October JNTE (Journées Nationales de Thermoélectricité),

Hello everyone,

A new edition of the SALAD (School of Atomic Layer Deposition) thematic school will take place in Autrans (Vercors Massif - near Grenoble) from October 27 to 30, 2025.

No prerequisites are required to attend this thematic school, and the fundamental basics of the technique will be rapidly acquired by all from the first half-day of the program, before specific themes are explored in greater depth.

In this sense, this thematic school is aimed at anyone, from beginner PhD students to experienced researchers, wishing to broaden their theoretical and practical knowledge in the field of ALD thin-film processing.

<https://rafald.org/fr/salad-2025/>

Pre-registration is now open: <https://rafald.org/fr/salad-inscriptions-et-abstracts/> . As the number of places is limited, a selection process has been set up and you will need to fill in the following form.

Should you have any questions, please do not hesitate to contact us: ecole-rafald@listes-simap.grenoble-inp.fr

Kind regards

David for the organizing committee.

LINK



25-27 th of November JNTE (Journées Nationales de Thermoélectricité),

The next Journée Nationale de la Thermoélectricité will be organized by F. Giovannelli and co, these days are organized jointly by GIS-Thermoélectricité and GDR-NAME, more to come on this soon !!

[LINK](#)



PHONON 2025 is organized in Buenos Aires in ARGENTINA from 1st to 5th of december 2025.

Phonons 2025 will be the 18th edition of a distinguished conference series dedicated to presenting the most prominent results in phonon physics. This 18th International Conference on Phonon Scattering in Condensed Matter will be held in Buenos Aires, Argentina, and continues the last two conferences held in Paris, France, in 2023 and Nanjing, China, in 2018.

Phonons 2025 will feature plenary sessions on the latest developments, parallel oral sessions with invited talks on key topics, poster sessions, and social events to encourage discussions within the phonon physics community.

[LINK](#)

La bonne cuisine dans les romans policier. Pourquoi les auteurs de romans policier insèrent-ils ou elles

très souvent de la cuisine, du vin et de la musique dans leur bouquins ?? à discuter

!





Mamie Lüger et les coquillettes "Grand Mère"

Dans le roman de Benoît Philippon, Mamie Lüger, qui se dévore en rigolant, l'auteur fait une grosse erreur culinaire en disant qu'il n'y a rien de plus barbant qu'un plat de coquillettes. C'est faux, suivez cette recette et vous nous en direz des nouvelles. Mettez 500 gr de coquillettes au fond d'une casserole avec au moins 50 gr de beurre et plus si affinité. Faites revenir les coquilles crues pendant suffisamment de temps pour les faire colorer et brunir (pas trop quand même). Ensuite on ajoute le sel et l'eau chaude progressivement en fonction des goûts. On goûte pour savoir si c'est cuit, génial !! et on ne peut pas faire plus simple, comme disait ma Grand Mère !!



Maigret et la blanquette de veau

Maigret adore la blanquette de veau, qu'il déguste soit à la maison soit au restaurant dans Paris. Avec des carottes des champignons, et du tendron de veau qu'on plonge dans l'eau froide pour commencer la cuisson, rien de meilleur. Ne pas oublier deux branches de céleris qui vont parfumer la sauce. Miam miam. Ma recette préférée vient du Guide vert de cuisine, Edition 1995 difficile à trouver !!



La soupe d'Adamsberg

Fred Vargas aimait faire manger une garbure à son héros, et on la comprend, c'est autant un plat de résistance qu'une soupe. A déguster entre amis avec un bon vin rouge capiteux du sud ouest (Madiran ou Irouléguy si on est fou-fou). Recette à essayer tout en relisant les enquêtes de Vargas: <https://www.papillesetpupilles.fr/2006/04/garbure-barnaise-blog-apptit-7.html/>

You have received this email because you have subscribed to the GDR mailing list.

Don't forget to submit your announcements, proposals for highlights, image of the month, information of all types... Thank you!



N A M e

GDR Nanomaterials for Energy Applications

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