

Newsletter's Summary

Agenda [page 2](#)



Get a reminder on upcoming events and deadlines.
Feel free to contribute if you become aware of any change!

Local News [page 4](#)



Infos about local representatives, the board actions to build a better and more efficient network and education... here are the local news!

Job announcements [page 5](#)



Find your dream job in this fresh list of opportunities!
If you wish to announce a position, please contact the YAN.

Publications [page 6](#)



This time, read about combining numerical methods to render acoustics models cheaper and more efficient with a paper from Le Mans, France.

Board's Highlights



NEWS

The board is looking to strengthen the network, read a bit about that and our recent actions to improve our contact with local reps.

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META

Mathieu performs in PhD between two countries working with thin structures and numerical methods. Read about that in this month's publication.

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Upcoming Events



October 2018

4th - 6th — Auditorium Acoustics 2018. Hamburg, Germany.



24th - 26th — **FIA 2018/TECNIACÚSTICA 2018** — 49th Spanish Congress of Acoustics, 10th Iberic Congress of Acoustics, 11th Iberoamerican Congress of Acoustics, Cadiz, Spain.



29th - 31st — **FCAC 2018** — 2nd Franco-Chinese Acoustic Conference. Le Mans, France.



November 2018

7th - 9th — **SAM 2018** — Symposium on Acoustic Metamaterials, Xàtiva, Spain.



5th - 9th — **ASA Meeting 176** — 176th Meeting of the Acoustical Society of America, Victoria BC, Canada.



December 2018

10th - 14th — EAA Winter School on Computational Acoustics, Le Mans, France.



Upcoming Deadlines



October 2018

15th — FCAC 2018 — 2nd Franco-Chinese Acoustic Conference. Le Mans, France.
End of registration



November 2018

1st — DAGA 2019 — 45th Annual Meeting of the German Acoustical Society.
 Rostock, Germany. **Deadline abstract submission**



15th — DAGA 2019 — 45th Annual Meeting of the German Acoustical Society.
 Rostock, Germany. **Deadline for student grant application**



15th — EAA Winter School on Computational Acoustics. Le Mans, France.
End of early registration



23rd — Bioacoustics — 6th International Conference on Bio-Acoustics.
 Loughborough University, UK. **Deadline for abstract**



December 2018

1st — ICSV 26 — 26th International Congress on Sound and Vibration.
 Montreal, Canada. **Deadline for abstract**



Did we miss a date ?

Behind the YAN, there's humans you can help!

The agenda listing is all gathered by hand: if you think we missed something relevant, don't hesitate to tell us!

yan@euracoustics.org

Local News



Local Representatives

In order to strengthen the backbone of the YAN, the board is now recontacting all local representatives to get a clear view of which countries are lacking one and who is in charge. This is the preliminary procedure to an improved collaboration between the board and the reps in the upcoming months. Indeed, after the last board meeting in Greece, the YAN decided to be more and more present in the countries through happenings at conferences, co-organisation of workshops and sessions and better communication to and from the local societies.

There's a lot to be done but we expect this new year to be a fruitful for the organisation, bringing new tools and means to be more at the service of young acousticians all over Europe but also overseas.

We are constantly looking for your input also: what would you like to see in this newsletter? which information are you the most interested in? do you have other ideas on how we could improve?

Don't hesitate and send us a mail to

yan@euracoustics.org



Training Young Acousticians

All over Europe, projects are developing to train new acousticians at all levels of skill. If you are aware of any training program other YA could register in please let us know and we'll add them to Schola, the EAA database for acoustics courses.

EAA Winter School

On the same topic, don't forget to sign up for the EAA Winter School on Computational Acoustics to be held in Le Mans, France, in december. It will cover most of the usual techniques with lectures and practicals and will provide a good introduction to anybody interested or working with numerical methods to model acoustic phenomena.

More at euracoustics.org/WSCA



Publish here!

July and August newsletter was special, but the usual **Publications section is now back to normal** !

You have a **recent publication** you're especially proud of? Don't hesitate and send us:

- The abstract**
- A link to the full text**
- A short bio about you**
- Your nicest picture**
- A contact address**

yan@euracoustics.org

Job Announcements



Graduate Acoustics **Consultant** at Cundall. Manchester, United Kingdom.

Application deadline: 28/10/2018



Acoustic **Consultant**/Senior Acoustic Consultant at Arcadis. Warrington and London, United Kingdom.



Acoustics **Engineer** at Bowers & Wilkins. Steining, United Kingdom.



Acoustics **Consultant** at Matchtech. London, United Kingdom.



Senior/Principal Acoustic **Consultant** at Calibre Search. Birmingham, United Kingdom.



Acoustic **Technician** at HA Acoustics. Chelmsford, United Kingdom.



Junior **Project Engineer** Acoustics & Vibrations at Tractelbel. Brussels, Belgium.



System Engineer Audio at Volvo Cars. Gothenburg, Sweden.



Doctor or Senior Engineer in Acoustics at HAP2U. Grenoble, France.



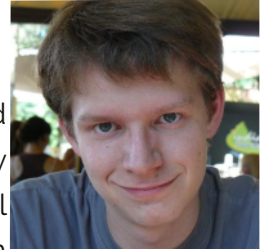
Publications



Coupling FEM, Bloch Waves and TMM in meta-poroelastic laminates

The propagation of airborne plane waves in the presence of a meta poroelastic laminate, that is a poroelastic matrix coated with thin elastic layers at its facings and periodically-embedded with inclusions, is studied. Using the Finite Element Method (FEM) only would result in a drastic increase of the degrees of freedom due to the fine mesh required to account for the very thin coatings. Here, the approach relies on: the Bloch wave expansion of the fields in air; the modal Transfer Matrix Method to account for the coatings; and the coupling with the FEM model of the poroelastic matrix and the resonant inclusions. The model is developed for reflection and transmission problems and it can account for coatings with multiple layers. The procedure induces the addition of the Bloch coefficients in the FEM's linear system at a negligible additional computational cost. It is applied to the meta poroelastic laminates with poroelastic inclusions and rubber shell inclusions. The results are compared with those from the Multiple Scattering Theory and an excellent agreement between the methods is found. The approach offers a numerically-efficient way to account for coatings applied to meta poroelastic layers, and finds applications in industrial prototypes where coatings are widely used.

About the author



Mathieu Gaborit is a PhD Student at Le Mans University (France) and the KTH Royal Institute of Technology in Stockholm (Sweden), working on modelling wave propagation through interfaces with defects. He received his MSc. in Acoustics from Le Mans University and is active in several organisations including the YAN as a Newsletter Manager.

DENORMS Special Issue

This paper was submitted and accepted at Acta Acustica United with Acustica in a special issue dedicated to the DENORMS COST Action (CA 15125). This action, focused on the Design of Noise-Reducing Materials and Structures has been granted a 4 years funding to create and strengthen a research network on this topic. Several Winter and Summer Schools as well as workshops and sessions in conferences have been organised. The action is an opportunity for young acousticians interested in meta- or poroelastic- materials to meet seniors in this field.

More info on denorms.eu

INFOS

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Read the full publication: