Newsletter's Summary

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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 the new Newsletter Manager in the YAN and an upcoming Symposium on Acoustic Metamaterial in Italy.

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 month discover a publication on a simplified model for thin acoustic screens and facings from the LAUM, France & KTH, Sweden.

Board's Highlights

Read about the new newsletter manager of the YAN! page 4

The second edition of the Symposium on Acoustic Metamaterials will take place in Italy early October. Page 4
Upcoming Events

**June 2019**

- **12th - 14th — WTN 2019 —** 8th International Conference on Wind Turbine Noise. Lisbon, Portugal.
- **16th - 19th — INTER.NOISE 2019 —** 48th International Congress and Exhibition on Noise Control Engineering. Madrid, Spain
- **24th - 26th — ISUCB 2019 —** International Symposium on Ultrasonic Characterization of Bone. Fréjus, France
- **24th - 27th —** 14th School on Acousto-Optics and Applications. Torún, Poland

**July 2019**

- **1th - 5th — Metagineering 2019 —** Summer School on principles and engineering applications of acoustic metamaterials. Oléron, France
- **7th - 11th — ICSV26 —** 26th International Congress on Sound and Vibration. Montréal, Québec

**August 2019**

- **25th - 30th — Waves 2019 —** 14th International Conference on Mathematical and Numerical Aspects of Wave Propagation. Vienna, Austria
- **26th - 28th — NOISECON —** INCE-USA annual General Meeting. San Diego, USA
- **26th - 30th — CFM 2019 —** 24th French Congress on Mechanics. Brest, France
### Upcoming Deadlines

#### June 2019

<table>
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<tr>
<th>Date</th>
<th>Event</th>
<th>Location</th>
<th>Deadline Details</th>
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<tbody>
<tr>
<td>9th</td>
<td>ICSA 2019</td>
<td>5th International Conference on Spatial Sound. Ilmenau, Germany.</td>
<td>Deadline for manuscripts (seeking peer review and without)</td>
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<tr>
<td>10th</td>
<td>CFM 2019</td>
<td>24th French Congress on Mechanics. Brest, France.</td>
<td>Deadline for article submission after peer review</td>
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#### July 2019

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<tr>
<th>Date</th>
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<tr>
<td>1st</td>
<td>ISRA 2019</td>
<td>International Symposium on Room Acoustics. Amsterdam, Netherlands.</td>
<td>Deadline for early bird registr. &amp; manuscripts peer review</td>
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<tr>
<td>15th</td>
<td>ISRA 2019</td>
<td>International Symposium on Room Acoustics. Amsterdam, Netherlands.</td>
<td>Deadline for paper submission</td>
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#### August 2019

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<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>1st</td>
<td>ICU 2019</td>
<td>2019 International Congress on Ultrasonics. Bruges, Belgium.</td>
<td>Deadline for registration</td>
</tr>
<tr>
<td>1st</td>
<td>ICSA 2019</td>
<td>5th International Conference on Spatial Sound. Ilmenau, Germany.</td>
<td>Deadline for manuscripts seeking peer review &amp; without peer review</td>
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New Newsletter Manager: Jasmin Hörmeyer

After skipping March’s newsletter, the YAN board received a couple of applications to join and help. Jasmin Hörmeyer proposed to help with the newsletter and started working right away on April’s issue.

With the help of the rest of the board to gather information and help editing, she will keep all of you updated about the world of acoustics!

Welcome home Jasmin!  
*Mathieu, YAN chair*

About Jasmin

Jasmin started her Ph.D. in 2017 at the Institute of Structural Analysis of the Leibniz Universität Hannover in Germany. She finished her bachelor’s and master’s degree in Civil Engineering at the Technische Universität Braunschweig. During her studies, Jasmin found her love to the acoustics and chose a specialization on building and room acoustics as well as computational methods.

In her Ph.D., Jasmin is working in a project investigating the sound propagation of wind turbines and the prediction of noise pollution on residents. Therefore, she is developing a model for simulating the sound propagation under complex atmospheric conditions.

Besides her interests in research and science, the acoustics also takes part in her hobbies, as she enjoys playing the piano.

SAM 2019

The second edition of the "Symposium on Acoustic Metamaterials" (SAM) will be held from 9th to 11th October 2019 in Ischia (Italy) and organised by YRAM (Young Researchers in Acoustic Metamaterials), DENORMS CA 15125 and University of Salerno.

This Symposium on Acoustic Metamaterials is targeted to PhD candidates, Early Career Investigators (i.e. researcher whose career spun less than 8 years since the date of the PhD) and aims at sharing new advances and breakthroughs as well as fostering the community of young researchers in the field of acoustic metamaterials. The second SAM will be organised around 6 different sessions comprising 20 min talks and plenary lectures.

- Andrea Bergamini (EMPA, Switzerland)
- Richard Craster (Imperial College London
- Jean-Philippe Groby (LAUM, Le Mans)
- Jensen Li (HKUST, Hong-Kong)
- Angela Madeo (INSA, Lyon)

Different social and dissemination activities will be organized during the symposium.

Abstracts submission should be performed simultaneously with the registration (free of charge) before 26th July 2019.

[Sam-2019@sciencesconf.org](mailto:sam-2019@sciencesconf.org)
[denorms@univ-lemans.fr](mailto:denorms@univ-lemans.fr)
Job Announcements

**PhD position** on ‘3D Imaging of vibrating fibrous structures by synchrotron X-ray microtomography: application to vocal issues’ 3SR Lab. Grenoble, France.

**Praktikum** im Bereich Acoustics (in German), Fraunhofer-Gesellschaft. Ilmenau, Germany

**Application Engineer**, HOLOPLOT. Berlin, Germany

**Senior Acoustic Consultant** (Building Acoustics), Arcadis. Warrington, United Kingdom

**Acoustics Consultant**, AECOM. Croydon, United Kingdom

**Acoustic Consultant**, Atkins. London, United Kingdom

**Acoustic Consultant**, Atkins. Birmingham, United Kingdom

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

**Internship** Noise & Vibration Engineer (6 months), Bridgestone EMEA. Castel Romano, Italy

**Audio DSP Engineer**, Goertek Europe. Aalborg, Denmark
A simplified model for thin acoustic screens

A generalization of the commonly used pressure jump modeling of thin porous layers is proposed. The starting point is a transfer matrix model of the layer derived using matrix exponentials. First order expansions of the propagating terms lead to a linear approximation of the associated phenomena and the resulting matrix is further simplified based on physical assumptions. As a consequence, the equivalent fluid parameters used in the model may be reduced to simpler expressions and the transfer matrix rendered sparser. The proposed model is validated for different backing conditions, from normal to grazing incidence and for a wide range of thin films. In the paper, the physical hypotheses are discussed, together with the origin of the field jumps.

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 from October 2017 to April 2019 and Chairman since October 2018.

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Affiliation: LAUM UMR CNRS 6613, Le Mans, France
KTH Royal Institute of Technology, Stockholm, Sweden
Contact: gaborit@kth.se

Published as Express Letter in the Journal of Ac. Soc. of America 144 EL76 (2018). DOI: 10.1121/1.5047929
The second edition of the "Symposium on Acoustic Metamaterials" (SAM) will be held from 9th to 11th October 2019 in Ischia (Italy) and organised by YRAM (Young Researchers in Acoustic Metamaterials), the COST Action DENORMS CA15125 and the University of Salerno.

SAM is mainly targeted to PhD candidates, early career investigators and aims at sharing new advances and breakthroughs as well as fostering the community of young researchers in the field of acoustic metamaterials.

Confirmed plenary speakers:

- Andrea Bergamini (EMPA, Switzerland)
- Richard Craster (Imperial College London)
- Jean-Philippe Groby (LAUM UMR CNRS 6613, Le Mans)
- Jensen Li (HKUST, Hong-Kong)
- Angela Madeo (INSA, Lyon)

Abstracts should be submitted online at sam-2019.sciencesconf.org before 26th July 2019 and should be no longer than 400 words.

Registration is free of charge but mandatory for all participants and must be performed before 13th September 2019.

35 grants will be awarded on a competitive basis to PhD students and early career investigators (researchers who defended their PhD less than 8 years ago) who will present a contribution during the SAM workshop.
Symposium on Acoustic Metamaterials

9-11 October 2019
Ischia (Italy)

https://sam-2019.sciencesconf.org

- Acoustic/elastic metamaterials and phononic crystals
- Acoustic/elastic metasurfaces
- Non-reciprocal manipulation of acoustic/elastic waves
- Acoustic/elastic meta-devices based on transformation acoustics, parity-time symmetric acoustics, topological acoustics
- New applications of metamaterial-based functional devices for acoustic sensing, cloaking, imaging, absorption, energy harvesting
- …

The SAM also aims at networking in a friendly environment. Several social activities are scheduled (social dinners, scientific popularization, visit of the Aragonese castle and of Naples undergrounds,…).

Any questions?
Please contact us

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@YoungResearchers.in.AcousticMetamaterials

sam-2019.sciencesconf.org