



## News

### Hi everyone!

Here is the April issue.

### The newsletter celebrates its 3rd anniversary!

Deadlines are provided, two interesting publication abstract are reported. One is about Architectural acoustics and the other on Speech issues.

Informations on free student affiliation to Institute of Acoustics are reported at pag 3.

At page 6 and 7 you can find some info on EAA products.

Finally at page 7 there are some informations on International Noise Awareness Day but we encourage you to provide news on local initiatives for the next issue.

### Enjoy the newsletter!

### The YAN TEAM

Issue 1/4

April 2014

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## Newsletter Anniversary

It has been three years since the first issue of the newsletter was published: around 9 issues per year have been published with a total of 29 issues. Several contributors have helped the editorial board by providing information.



A special thanks goes to Marta Monzon for her search for interesting posts in acoustics.

A special thanks also goes to the present & past readers of the newsletter, especially those who provided feedback on mistakes or further information!

Finally I want to let you know that all of the past issues are available here:

<https://www.euracoustics.org/activities/yan/yan-newsletter>

**Remember to renew your membership filling the survey if you still want to receive this newsletter!**

[LINK TO FORM](#)



# Upcoming events & Deadlines

Upcoming events April & May 2014 :

- 3-5 April 2014: EAA Joint Symposium on Auralization and Ambisonics. Berlin, Germany.  
[https://www.auralization.tu-berlin.de/menue/important\\_dates/](https://www.auralization.tu-berlin.de/menue/important_dates/)
- 9-10 April 2014: (JST – AMAC / AFM / SFA) Scientific meeting: Dynamics and acoustics of composite structures. Nevers(France).  
[http://sfa.asso.free.fr/ECHO\\_HEBDO/2014/doc/Plaqueette%20JST%20Vib-Acoustique&composites-2.pdf](http://sfa.asso.free.fr/ECHO_HEBDO/2014/doc/Plaqueette%20JST%20Vib-Acoustique&composites-2.pdf)
- 22 April-2 May 2014: Mediterranean acoustic festival. Limassol (Cyprus).  
<http://www.mediterraneanacoustics.com/EventsTraining/Training.aspx>
- 22-25 April 2014: (CFA 2014) Congress of the French acoustical society. Poitiers (France)  
<http://cfa2014.conference.univ-poitiers.fr/spip.php?article93&lang=fr>
- 23-25 April 2014: (UIA 14) 43rd Annual Symposium of the Ultrasonic Industry Association. Madrid (Spain)  
<http://www.ultrasonics.org/events.html>
- 26-29 April 2014: AES136th Convention. Berlin, Germany.  
<http://www.aes.org/events/136/>
- 4-9 May 2014: (ICASSP 2014). 2014 IEEE International Conference on Acoustics, Speech, and Signal Processing. Florence ,Italy.  
<http://www.icassp2014.org/home.html>
- 5-9 May 2014: ASA - 167th Meeting of the Acoustical Society of America. Providence, Rhode Island (USA).  
<http://acousticalsociety.org/meetings/providence>
- 12-14 May 2014: (Rosario 2014). Previous conferences at “The week of the sound”. Rosario, Argentina.  
[http://www.fceia.unr.edu.ar/semanadelsonido2014/La\\_Semana\\_del\\_Sonido\\_2014/Bienvenidos.html](http://www.fceia.unr.edu.ar/semanadelsonido2014/La_Semana_del_Sonido_2014/Bienvenidos.html)
- 12-16 May 2014: (ISAF/IWATMD/PFM). 2014 Joint IEEE International Symposium on the Applications of Ferroelectric, International Workshop on Acoustic Transduction Materials and Devices & Workshop on Piezoresponse Force Microscopy.  
<http://www.mri.psu.edu/conferences/2014IEEE-ISAF-IWATMD-PFM/>
- 19-23 May 2014: “The week of the sound”. Rosario, Argentina.  
[http://www.fceia.unr.edu.ar/semanadelsonido2014/La\\_Semana\\_del\\_Sonido\\_2014/Bienvenidos.html](http://www.fceia.unr.edu.ar/semanadelsonido2014/La_Semana_del_Sonido_2014/Bienvenidos.html)
- 20-21 May 2014: (IBPSA14) International Building Performance Simulation Association conference. Béthune, France.  
[http://sfa.asso.free.fr/ECHO\\_HEBDO/2013/doc/plaqueette-ibpsa2014.pdf](http://sfa.asso.free.fr/ECHO_HEBDO/2013/doc/plaqueette-ibpsa2014.pdf)
- 25 May 2014: (ESWC 2014). European Semantic Web Conference 2014. Crete (Greece)  
<http://2014.eswc-conferences.org/>
- 26-28 May 2014: (CIP2014) 4th International Workshop on Cognitive Information Processing. Copenhagen, Denmark.  
<http://cip2014.conwiz.dk/home.htm#.UtxkT5ir0y4>

Submission deadlines April & May 2014:

- 10 April 2014: ICBEN 2014. (Full paper)  
<http://www.icben2014.com/>
- 14 April 2014: BNAM2014 (Full paper)  
<https://www.euracoustics.org/ea-societies/partner-societies/nordic-acoustics-association/bnam-2014>
- 15 April 2014: AES 54th (Full paper)  
<http://www.aes.org/conferences/54/>
- 15 April 2014: UA 2014 (Full paper)  
<http://www.uaconferences.org/>

- 15 April 2014: ISMA 2014 (Full paper)  
<http://isma.univ-lemans.fr/en/index.html>
- 18 April 2014: IBPSA14 (Full paper)  
[http://sfa.asso.free.fr/ECHO\\_HEBDO/2013/doc/plaquette-ibpsa2014.pdf](http://sfa.asso.free.fr/ECHO_HEBDO/2013/doc/plaquette-ibpsa2014.pdf)
- 18 April 2014: NIME 2014. (Full paper)  
<http://www.nime2014.org/>
- 18 April 2014: Workshop :The Eighth IEEE Sensor Array and Multichannel Signal Processing (Full paper)  
<http://www.gtec.udc.es/sam2014/>
- 21 April 2014: ESWC 2014. (Full paper)  
<http://2014.eswc-conferences.org/>
- 30 April 2014: DAGA 2014. (Full paper)  
<http://2014.daga-tagung.de/en/>
- 30 April 2014: Summer school: Pitch, Music, and Associated Pathologies (Registration free cost)  
<http://celya.universite-lyon.fr/manifestations/summer-school-2014-249997.kjsp?RH=1307603319890>
- April 2014: ICPMC 2014 (Full paper)  
[http://icmpc.org/icmpc\\_upcoming\\_conference.html](http://icmpc.org/icmpc_upcoming_conference.html)
- 1 May 2014: FA2014. (Full paper)  
<http://www.fa2014.pl/>
- 1 May 2014: ICAD 2014. (Full paper)  
<http://steinhardt.nyu.edu/icad2014/>
- 10 May 2014: Internoise 2014. (Abstract)  
[http://www.internoise2014.org/?page\\_id=54](http://www.internoise2014.org/?page_id=54)
- 11 May 2014: FMA 2014 (Full paper)  
<http://www.cmpe.boun.edu.tr/fma2014/>
- 14 May 2014: Low Frequency Noise 2014 (Abstract)  
<http://www.confweb.org/lfn2014/>
- 15 May 2014: Tecnicacústica 14. (Abstract)  
<http://www.sea-acustica.es/index.php?id=437#c529>
- 30 May 2014: FIA 2014. (Abstract)  
[http://www.socha.cl/?page\\_id=8](http://www.socha.cl/?page_id=8)

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## Free Student Affiliation to IOA

The Institute of Acoustics is offering free affiliation to all students in order to help them understand the subject better and how it overlaps with so many professions, from architecture to medicine, and from music to zoology.

The benefits include:

- \* Twice yearly e-zine, Sound Bites, with acoustics news, people profiles and job tips
- \* Great networking opportunities
- \* Discounted attendance at paying events
- \* Invitations to free branch meetings in their area
- \* Monthly newsletter.

Full details are available here: <http://www.ioa.org.uk/news/free-student-affiliation-ioa>

**Title:** "A methodology for the study of the acoustic environment of Catholic cathedrals: Application to the Cathedral of Malaga"

**Author:** Lidia Álvarez-Morales

**Affiliation:** Department of Applied Physics II, University of Seville

**Journal:** Building and Environment, Vol. 72 (February 2014) pp 102 - 115.

[\[link\]](#)

**Abstract:**

Sound propagation in large reverberant religious spaces has remained relatively unexplored within the general context of the acoustics of places of worship. However, complex acoustic physical phenomena can occur in these buildings, where substantial changes in the behaviour of the space can be produced depending on where the sound source is placed. This paper describes the methodology used for the study of the acoustic environment of the Catholic cathedrals of southern Spain, and this is applied to the Cathedral of Malaga. The monaural and binaural impulse responses were determined in the various receivers for five positions of the sound source: major altar, pulpit, choir, organ and retrochoir, which correspond to the positions of use of liturgical, musical, and cultural activities that take place in the temple nowadays. According to the typology of the cathedral, six areas can be established for the location of the congregants and/or the audience. The interdependence of the positions of the source and positions of listeners in the various zones is analysed by processing acoustic parameters related to reverberation, sound strength, clarity, early lateral reflections, and the speech intelligibility. Furthermore, experimental results are compared spectrally with the simulated values obtained from a 3D geometrical-acoustic model created for the space, in which simulation mappings determine the areas of visibility for each sound source position together with the statistical distribution of the values of the acoustic parameters in the areas of influence selected in the cathedral.

*Biography:*

*Lidia Álvarez-Morales has been working as a researcher for the University of Seville, Spain, since 2011.*

*She holds a BSc in Telecommunications Engineering, specialising in Video and Sound, at the University of Malaga and a MSc. degree in Acoustic engineering completed at Granada University in 2010. Her thesis is focused on acoustics of heritage buildings, specifically in large places of worship.*

*She has participated in several international congresses and is working on two others journal publications.*



**Title:** "Generalized Spherical Array Beamforming for Binaural Speech Reproduction."

**Authors:** Noam R. Shabtai, Rafaely, B.

**Affiliation:** Dept. of Electr. & Comput. Eng., Ben-Gurion Univ. of the Negev, Israel

**Journal:** Audio, Speech, and Language Processing, IEEE/ACM Transactions on , vol.22, no.1, pp.238,247, Jan. 2014

[\[link\]](#)

## Abstract:

Microphone arrays are used in speech signal processing applications such as teleconferencing and telepresence, in order to enhance a desired speech signal in the presence of speech signals from other speakers, reverberation and background noise.

These arrays usually provide a single-channel output, so that no spatial information is available in the output signal. However, spatial information on the sound sources may increase the intelligibility of a speech signal perceived by a human listener.

This work presents a mathematical framework for generalized spherical array beamforming that in addition to suppressing noise and reverberation, is aiming to preserve spatial information on the sources in the recording venue. The generalized beamforming, formulated in the spherical harmonics domain, is based on binaural sound reproduction where the head-related transfer functions are incorporated into a headphones presentation. The performance of the proposed generalized beamformer is compared to that of a single-channel output maximum-directivity beamformer. Listening tests with human subjects show that when the generalized beamformer is used the intelligibility is improved at low input SNRs.

## Biography :

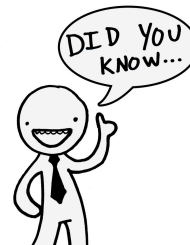
Noam Shabtai (S'13) received the B.Sc., M.Sc. and Ph.D. degrees in electrical and computer engineering from Ben-Gurion University of the Negev (BGU), Beer-Sheva, Israel, in 2002, 2005 and 2011, respectively. Since 2011, he has worked as a post-doctoral researcher at the Acoustics Lab in the Department of Electrical and Computer Engineering, BGU. His current research interests include microphone array signal processing and binaural sound reproduction.

Dr. Shabtai currently holds the Kreitman Post-Doctoral Scholarship and recently was awarded a Minerva Fellowship for a research residency at the RWTH Aachen University, Institute of Technical Acoustics.





## Did you know?



In the last YAN newsletter issue we introduced the European Acoustics Association (EAA) and its directive board. Now it's the turn to present the different products that the EAA offers.

### ACTA ACUSTICA UNITED WITH ACUSTICA

Acta Acustica united with Acustica (AAA) is the scientific journal of the EAA. AAA reports on original scientific research in all subjects in the field of acoustics and on engineering applications. The journal includes scientific papers, technical and applied papers, book reviews, short communications, doctoral thesis abstracts, etc. In irregular intervals special issues and review articles are published.

The editor in chief is Dr. Jean Kergomard, from the Lab. de Mécanique et d'Acoustique, CNRS; Marseille (France).

### DOCUMENTA ACUSTICA

Documenta Acustica is the literature distribution system of the European Acoustics Association. It distributes conference and symposia proceedings as well as books, reports and theses. It helps to distribute information that is otherwise confined to European acoustical societies, laboratories or companies.

The product manager of Documenta is Sergio Luzzi, from the Acoustics and Environmental Physics Department, Vie En.Ro.Se, Florence (Italy).

### ACOUSTICS IN PRATICE

European journal of current topics in applied acoustics. The journal audience is those practicing in the fields of acoustics, noise and vibration. Readers and contributors are expected to be practitioners: these include consultants, manufacturers, policy makers and regulators. The papers are not peer reviewed, but are reviewed by an editor.

The editor in chief is Colin English, from English Cooger LLP (UK).

### NUNTIUS

EAA's product Nuntius has been published since the beginning of 2001 bimonthly in electronic format and distributed together with Acta Acustica united with Acustica. The Nuntius Acusticus provides news of acoustics: information on EU activities, on noise control policy or on other political topics, education in acoustics, education and research guides and news or publications from the Technical Committees, new products, instrumentation or materials. Since November 2011, the new Nuntius became a monthly electronic newsletter.

The product manager of Nuntius is Ass. Prof. Kristian Jambrosic, from the University of Zagreb (Croatia).

### FENESTRA

EAA's product Fenestra is the website of the EAA and gathers all the information relevant to the association: products, events, activities, job offers, etc. Just visit the website:

<https://www.euracoustics.org/>



The product manager of Fenestra is Olivier Dazel, from the Lab. d'Acoustique de l'Université de Maine, Le Mans (France).

#### SCHOLA

EAA Schola - the European Web-based University Guide is a service to students in acoustics. It offers search functions for institutions, courses, and other information relevant for students in acoustics.

The Schola product manager is Dr.-Ing. Malte Kob, from the University of Music Detmold (Germany).

#### YAN

The Young Acousticians Network (YAN) is a non-profit initiative within the European Acoustics Association (EAA) whose goal is to establish a community for young researchers and young professionals in the field of Acoustics; to connect them and to provide support.

The chair of the YAN is Dr. Xavier Valero, from the Media Technologies and Acoustics group from La Salle-Universitat Ramon Llull, Barcelona (Spain).

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## INAD: International Noise Awareness Day

The International Noise Awareness Day was launched by the American Center for Hearing and Communication, a non-profit organization, in 1995. The aim of this global campaign, which takes place every year in April, is to raise awareness among the general public of the issue of noise and the risks it poses. People all over the world are called upon to take part via various actions on this occasion, such as open days on hearing acousticians' premises, lectures in public health departments, universities and schools, panels of experts, noise level measuring actions and readings. Always at the end of April, this year it will be celebrated on 30th April.

More info on initiatives:

<http://www.hear-the-world.com/en/about-us/campaigns-events/noise-awareness-day/noise-awareness-day.html>

<http://www.chchearing.org/noise-center-home/international-noise-awareness-day>

<https://www.facebook.com/gruppo.inaditalia> (Italy)

<http://www.tag-gegen-laerm.de/> (Germany and Austria)

If you are aware of any other local initiatives please tell us and they will appear in the next issue.

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## EAA YAN

email: [yan@euracoustics.org](mailto:yan@euracoustics.org)

web: <https://www.euracoustics.org/activities/young-acousticians-network>

If you wish to stop receiving this newsletter, or cancel your membership, please contact the EAA yan chair at this email address.