News

Hi everyone!

Here is the May issue,

Deadlines and events are presented for the months May and June and as you know, that’s the start of the high season of conferences.

We have two YAN publications (Psychoacoustics and environmental noise) and two reports: one is on the COST action NVH analysis techniques for design and optimization of hybrid and electric vehicles and the other is on organizing a conference for young people. The latter comes from the direct experience of one of our members, Andrey Konkov.

Best regards,
The YAN team.

PS: Please go to page 4 to renew your membership

Issue 2/4
May 2014

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Upcoming events & Deadlines

Upcoming events May & June 2014:

http://www.icassp2014.org/home.html

http://acousticalsociety.org/meetings/providence

12-14 May 2014: (Rosario 2014). Previous conferences at “The week of the sound”. Rosario, Argentina.

http://www.mri.psu.edu/conferences/2014IEEE-ISAF-IWATMD-PFM/


http://2014.eswc-conferences.org/
Upcoming events & Deadlines

http://cip2014.conwiz.dk/home.htm#.UtxkT5ir0y4

http://www.eweа.org/events/workshops/wind-turbine-sound-2014/

1-5 June 2014: (ICBEN 2014) 11th International Congress on Noise as a Public Health Problem. Nara (Japan).  
http://www.icben2014.com

1-6 June 2014: Thematic course: "Non linear acoustics in complex media". Île d'Oléron (France).  

2-4 June 2014: (BNAM2014) Baltic-Nordic Acoustics Meeting. Tallinn (Estonia)  

3 June - 4 July 2014: Stuttgart International Summer School: educational program in electric and hybrid (electric and hydraulic) powertrains, Aerodynamics and Aeroacoustics. Stuttgart, Germany.  
http://www.fkfs.de/unternehmen/veranstaltungen/stuttgart-international-summerschool/

www.cmpe.boun.edu.tr/fma2014

12-14 June 2014: (AES 54th) 54th Conference on Audio Forensics. London, UK.  
www.aes.org/conferences/54/

16-18 June 2014: (BME2014) 5th International Conference on Biomedical Engineering - Includes a session on "Ultrasonic Characterization of Bone Tissues". Ho Chi Minh, Vietnam.  
http://csc.hcmiu.edu.vn/BME2014/

http://ecoaсoustics.sciencesconf.org/

22 June 2014: (ICAD 2014) 20th International Conference on Auditory Display. New York, USA.  
http://steinhardt.nyu.edu/icad2014/

http://www.gtec.udc.es/sam2014/

http://www.uaconferences.org/

22-28 June 2014: (ICNEM XIX) 19th International Conference on Nonlinear Elasticity in Materials. Fréjus, France.  
https://intranet.sfa.asso.fr/archives/j81-ICNEM2014/

http://www.aivela.org/11th_Conference/deadlines.html
Upcoming events & Deadlines


http://www.nime2014.org/

30 June-4 July 2014: (OT2014) Ocean Technologies Summer School. Faro (Portugal)
http://www.ot2014.org/index.php/registration

Submission deadlines May & June 2014:

10 May 2014: Internoise 2014. (Abstract)
http://www.internoise2014.org/?page_id=54

11 May 2014: FMA 2014 (Full paper)
http://www.cmpe.boun.edu.tr/fma2014/

12 May 2014: ISAF/IWATMD/PFM 2014 (Full paper)
www.mri.psu.edu/news/events/2014-IEEE/

14 May 2014: Low Frequency Noise 2014 (Abstract)
http://www.confweb.org/lfn2014/

http://www.tecniaesttica.es/index.php?id=437#c529

30 May 2014: FIA 2014. (Abstract)
http://www.socha.cl/?page_id=8

31 May 2014: EWEA Wind Energy Workshops 2014  (Abstract)
http://www.eweawahco.org/events/workshops/wind-turbine-sound-2014/

1 June 2014: AES 55th (Full paper)
http://www.aes.org/conferences/55/

1 June 2014: Noise-Con 2014 (Full paper)
http://www.inceusa.org/nc14/index.shtml

2 June 2014: DAFX-2014 (Full paper)
http://dafx14.fau.de/index.html

30 June 2014: ICMC|SMC|2014 (Full paper)
http://www.icmc14-smc14.net/

30 June 2014: 6th Congress of the Alps Adria Acoustics Association (Abstract)
http://alpsadriaacoustics.org/
Title: "Statistical analysis of a combination of objective and subjective environmental noise data using factor analysis and multinomial regression."

Author: Margret S. Engel; Emerson H. V. Segundo; Paulo H. T. Zannin

Affiliation: Dept. of Hydraulic and Sanitation, Federal University of Paraná, Brazil.

[link]

Abstract:

The purpose of this study was to demonstrate the efficiency of Factor Analysis and Multinomial Logistic Regression in analyzing a set of objective (noise measurements) and subjective data (results of interviews about noise perception in an urban setting) in a noise pollution study conducted in the city of Curitiba, in southern Brazil. In this study, noise was monitored at 23 points along three parallel streets covering a distance of 5 km, and 397 interviews were conducted with residents living in the vicinity of these points. The interview script consisted of 21 questions (variables). To reduce these variables, the main factors (7 factors) were extracted and then added to the objective part (noise measurement data). This was followed by a Multinomial Logistic Regression. The dependent variable in this regression was called “Interviewee symptoms and reactions to environmental noise.” The outcome of these two statistical procedures led to the conclusion that 85.2% of the symptoms and reactions could be attributed to the combination of these seven factors with the noise measurement data.

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.

Please notice that if you haven’t filled in the form for membership, this will be the last issue. People who haven’t renewed their membership will have their old membership details deleted after 10th of May. Fill the form here.
Title: "Noise annoyance through railway traffic - a case study"

Authors: Paulo H. T. Zannin; Fernando Bunn

Affiliation: Dept. of Hydraulic and Sanitation, Federal University of Paraná, Brazil.


Abstract:

This paper describes an assessment of noise caused by railway traffic in a large Latin American city. Measurements were taken of noise levels generated by trains passing through residential neighborhoods with and without blowing their horns. Noise maps were also calculated showing noise pollution generated by the train traffic. In addition - annoyance of the residents - affected by railway noise, was evaluated based on interviews. The measurements indicated that the noise levels generated by the passage of the train with its horn blowing are extremely high, clearly exceeding the daytime limits of equivalent sound pressure level - Leq = 55 dB(A) - established by the municipal laws No 10.625 of the city of Curitiba. The Leq = 45 dB (A) which is the limit for the night period also are exceeded during the passage of trains. The residents reported feeling affected by the noise generated by passing trains, which causes irritability, headaches, poor concentration and insomnia, and 88% of them claimed that nocturnal noise pollution is the most distressing. This study showed that the vast majority of residents surveyed, (69%) believe that the noise of the train can devalue their property.

Biography :

Fernando Bunn has been working as a researcher at Federation of Industries of the State of Paraná - FIEP, Brazil, since April 2014. He received the following degrees: Environmental Engineer (2010) at Federal University of Paraná, Brazil; and Master in Water Resources and Environmental Engineering (2013) at Federal University of Paraná, Brazil, where he worked at the Laboratory of Environmental and Industrial Acoustics and Acoustics Comfort. At the Laboratory the main activities developed were: 1) Use of noise simulation software for mapping urban areas for planning and control of road and rail noise 2) Noise measurements and elaboration of noise maps, 3) Elaboration of technical reports for environmental impact assessments. Throughout this period, Fernando participated as a technical member of 2 major projects: 1) Noise Monitoring from public transport system at Fortaleza city and 2) Noise Monitoring - IDB Pro-cities Curitiba (financed by Inter-American Development Bank, IDB). Between 2013 and 2014 he worked at an Architectural firm (DQZ Acoustics) at the environmental noise projects sector, and also at an environmental consultancy (STCP) with environmental projects.
**Did you know? COST ACTION**

**TUD COST ACTION TU1105**

**NVH analysis techniques for design and optimization of hybrid and electric vehicles**

The new vehicles generation led by hybrid and electric designs (H-EVs) features new challenges related to their noise, vibration and harshness (NVH) behavior. These include issues related to customer perceptions; noise & vibration loss masking from the currently implemented ICE; effects of the NVH character on driver fatigue and comfort; optimal vehicle design by combining H-EV drive train technology with lightweight body and chassis structures; and vehicle exterior noise and warning sounds concerning pedestrians safety.

Within this framework, the COST Action TU1105 “NVH analysis techniques for design and optimization of hybrid and electric vehicles” have developed activities, that aim to acquire, unify and coordinate necessary information about vehicle dynamics, driveability and NVH analysis technologies in view of the challenges posed by the HEVs and EVs.

The TU1105 Action is hosted by the intergovernmental framework for European Cooperation in Science and Technology (COST). The network started in April 2012 with 13 representatives from 8 countries. Presently it is composed of 36 entities from 15 countries (including 2 Non-COST Countries: New Zealand and Brazil) coming from the academia and also the industry. Networking is promoted among the parties, by means of meetings, training schools, short term scientific missions and dissemination of results.

The project will run until April 2016 and the work has been subdivided into 5 work groups, related mainly to the development of experimental and numerical NVH analysis techniques, and to the development of sound quality metrics and sound engineering of HEVs and EVs (including safety aspects).

The end-users of the Action are experienced and early-stage researchers, European authorities for transport regulations, independent consultants, experienced representatives from industry and relevant associations. They also include vehicle customers, pedestrians, cyclists, and indirectly the whole European society can be considered to benefit from the Action achievements.

For further information, please, visit: [http://www.cost.eu/domains_actions/tud/Actions/TU1105](http://www.cost.eu/domains_actions/tud/Actions/TU1105)


If you are interested to participate in the Action, please, contact with:

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Organizing conferences: the story of a student  by Andrei Konkov

At this point in time we are going to tell you about one bright initiative, that is being developed now in Russia: the organization of the 5th International Geosciences Student Conference (IGSC 5) that is to be held in Nizhny Novgorod from 28 July to 1 August, 2014. This annual event will probably gather around 200 participants from all over the World, mostly young students representing different areas of geosciences. The anniversary, 5th IGSC has, however, its own features, standing thus out against a background of previous events. Any guess on what are these features are? The answer is in a new conception of its organization process. Three student organizations (Institute of Applied Physics Geophysical Society, Perm State University Student Chapter, and Gubkin University Student Chapter) work together as a team to make IGSC 5 as an unforgettable event for all of us. How did this idea come about? What was the motivation? Is it worth starting your own initiatives at all? We decided to ask the Conference Chairman, Founder and President of the Institute of Applied Physics Geophysical Society, Andrey Konkov, who at the same time is our YAN national representative in Russia.

"I have an acoustical background rather than geophysical", Andrey says, "We have a strong acoustical scientific school in Nizhny Novgorod. This fact dates back to Soviet times, when local professionals have been working on problems, related to submarine construction or methods of location in seas. In Nizhny Novgorod region there is no oil or gas, so exploration geophysics was always disregarded here. Four years ago, when I was thinking on what subject to choose in order to work on my Master's, I had met Dr. Andrey Lebedev, who suggested me to focus on implementation of acoustical methods for subsoil characterization. After some wavering, caused by my lack of knowledge in "traditional" geophysics, I decided to take this opportunity and start learning. It was hard in the beginning but now I can’t imagine where my life without working in the eventful and demanding world that is geophysics. After communicating with some experienced professionals during major conferences I had realized how beneficial could be an implementation of our traditional acoustical methods to exploration geophysics and, in other words, to bring exploration geophysics into Nizhny Novgorod. With the help of my fellow students I decided to form the Institute of Applied Physics Geophysical Society — Society of Exploration Geophysicists (SEG) Student Chapter in our city in order to facilitate these promising links through the usage of young, fresh energy. The second reason was the desire to show local students how interesting a work of science could be when it goes beyond attending the course lectures or routine preparation for exams — conducting experiments in field, travelling, communication with world-known professionals and similar groups of young students and so on.

Of course the first steps were not easy. We found out that such youth initiatives are quiet new for Russia on the whole and our region in particular and the "senior" community is not familiar with how to deal with them. But we were motivated enough to break the existing barriers and reach out to achieve our goals.
We started a series of field trips, devoted to the diagnostics of water saturation effects on subsurface geological structures with use of improved MASW method. With the course of time, our organizational needs have been more and more often required us to consider more challenging tasks, and one day we claimed asked to ourselves: "Why can't we apply our research on something more attractive rather than studying an "empty" ground"? Archaeology came to our minds right away. At this time we were actively communicating with the Perm Student Chapter. Its President Anna Skorkina generously gave us advice as young but already experienced leader on how to operate effectively. As soon as she found out about our idea to organize a Field Camp in 2014, she suggested joining forces with the Berlin and Frankfurt Chapters, which already had had sufficient experience in the implementation of different geophysical methods (geomagnetics, geoelectrics and ground-penetrating radar) in archaeology. The object chosen to be studied was a 4th century burial site near Nizhny Novgorod. During negotiations with our German fellows, we decided to organize a workshop prior to the field camp, where we planned to introduce all the methods we were going to use to everyone and the interested community. There is a proverb that says that appetite comes with eating. So we shortly felt that we were able to organize a whole international conference based on this discussion and broaden the range of topics we were going to cover. That's how the idea of IGSC 5 in Russia was born.

Nevertheless, given the circumstances it would be inconsiderate if we did this challenge just on our own. We therefore decided to propose a new model of a conference organization that is based on the division of our responsibilities between the Institute of Applied Physics Geophysical Society, the Perm State University Student Chapter, and later the Gubkin University Student Chapter joined the project. Of course, such a collaboration has its own drawbacks (complexity in management, difficulty in communication caused by different time zones, etc.), but at the same time it has its obvious benefits, too. All our three chapters have emerged within places that are characterized by diverse geophysical schools, areas of scientific interests, and regional economic peculiarities. Chapters from different locations working together have a significant advantage for spreading information and promoting the event. Besides that, a diverse range of geophysical schools and our origin favors a multi-disciplinary and many-faceted insight to the problems we are facing every day.

At the moment, I'm happy to see how our Organizing Committee works, and, what is even more pleasant, how fast we all are growing up professionally. The organization of an international conference covers a wide range of issues that have to be taken into account. Negotiations with potential sponsors and professional organizations, budget evaluation, financial and time management, visa issues, juridical knowledge, website development and maintenance, graphic design, communication skills... The list is endless! As for me, it seems that every day of my life now equals (in terms of experience gained) to the months or years before. Therefore, I'd like to encourage all the YAN members who consider themselves to be active and full of ideas (by the way, I'm sure that it refers to all of you) not to keep your ideas to yourselves, waiting for a "better moment" to put them into action. During your youth, value your time and act if you feel a need (or even desire) to! Especially, if some of your colleagues share your opinion. Form a society, chat room, non-profit organization ... whatever! Take part in grant competitions; apply your scientific achievements in business. It would be not just fun, but obviously beneficial for your career path too."

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**EAA YAN**

email: yan@euracoustics.org

web: [https://www.euracoustics.org/activities/young-acousticians-network](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.