

# Education in Acoustics Committee

## MINUTES from the ED Com Meeting – ASA 177, Louisville (Tuesday, May 14, 4:30pm in *McCreary*)

Meeting was called to order at 4:30pm by ED Com Chair, Dan Russell.

### **Attendance:** (25 people signed in)

Dan Russell, Tyrone Porter, Freddie Bell-Berti, E. Carr Everbach, Kent Gee, Vic Sparrow, Stanley Cheyne, David Dowling, Reza (fill-in for Matt Kamrath SATC), Martin Lawless, Brian Monson, Andy Morrison, Andy Piacsek, Gordon Ramsey, Juli Simon, Scott Sommerfeld, Tom Gabrielson, Johnathan Weber, Brian Worthman, David Berol, Alexander Francis, S. Hales Swift, Trevor Jerome, Keeta Jones.

⇒ At Louisville, the ED Com meeting conflicted with TC meetings for EA and SP, and Women in Acoustics and the MU Bluegrass Concert!

### **Minutes from ASA 176 in Victoria**

Motion to accept and approve the minutes (David Dowling) and seconded (Freddie Bell-Berti). Approved by verbal assent.

## Announcement of Awards

### **Rossing Prize in Acoustics Education**

The **2018 Rossing Prize** lecture was delayed until the Louisville meeting. **Stanley A. Chin-Bing** gave the Rossing Prize Lecture, 2pED1 “The University of New Orleans ocean acoustics program at the Stennis Space Center, Mississippi.” The Rossing Prize lecture only had an embarrassingly low total of 7 people in attendance. This session was unfortunately scheduled in conflict with several other sessions, including: the panel discussion portion of the important 2pID (originally ED) session on empowering students to publish, which was also unfortunately rather poorly attended, and the Musical Acoustics Blue Grass Concert.

We received 3 nominations for the **2019 Rossing Prize**. These nominations were reviewed by the selection committee, and recipient will be announced prior to the Fall ASA 178 meeting in San Diego. Current make-up of the selection committee is:

Dan Russell (ED Com chair)

Andy Morrison (selected by previous ED Com chair – 2018-2021)

Tyrone Porter (selected by ASA president – 2017-2020)

John Buck (selected by Chair of Prizes & Special Fellowships Chair – 2018-2021)

David Dowling (selected by Chair of Prizes & Special Fellowships Chair – 2019-2022)

- **Topic for discussion:** there have been very few nominations submitted in recent years. The prize is not limited to ASA members. But there could be (should be) more ASA educators who are nominated for this prize. Education Committee members are encouraged to consider nominating candidates for this award.

### **The Frank and Virginia Winker Memorial Scholarship for Graduate Study in Acoustics**

This is a new (since 2017) **\$3,000 scholarship** for a graduate student enrolled in any college or university in the United States that has a graduate degree program in Architectural Acoustics, Noise Control, or Engineering Acoustics, and who have been accepted for graduate study in one of those fields. Engineering Acoustics, for the purposes of the Winker Scholarship, includes: Applications of linear and nonlinear acoustics, transduction and transducers, acoustical measurements, instrumentation, and applications of signal processing to any of the aforementioned areas. Applicants must be U.S. citizens.

- For 2019, seven (7) applications (from three schools) were received and were reviewed by the review committee, which includes the ED Com chair. **We need to increase awareness of this scholarship** – it would be nice to have applicants from a larger variety of schools where graduate students study acoustics.

## Special ED Sessions at ASA 177 Louisville

### ED Organized Sessions

#### TUESDAY:

**2aID – Graduate Programs in Acoustics (poster session)** – 8:00pm – *Exhibit Hall*

Notes: traffic was light but steady – about 20-25 people per half hour interacting with the 17 posters (around 100-120 people total). But, very few undergraduate students. In the future, ED will work with Student Council to coordinate this graduate programs poster session with an undergraduate research symposium session. Also, this session lasted 4 hours; two hours would be sufficient.

**2pID – Promoting Student Publishing Success** – 1:00pm – *Breatbitt*

Notes: The four papers in this session were important and well presented. Unfortunately, there was a lot of competition from other sessions during this time slot and attendance was poor – very few faculty advisors or students in attendance, even though this session was designed specifically for that audience.

**2pED – Acoustics Education Rossing Prize Lecture** – 3:25pm – *Coe*

Notes: Attendance for this session was disappointing (7 people including the two co-chairs and student A/V helper) to the point of embarrassment for an ED Prize lecture. The time slot was in direct competition with the MU Blue Grass concert and the panel discussion for 2pID “Promoting Student Publishing Success” along with several other popular sessions.

#### WEDNESDAY:

**3aED – Hands-On Demonstrations** – 8:00am – *Coe* (students attended from 10:00am-12:00pm).

34 high school students, 2 teachers, and 1 administrator participated. One teacher, Christopher Applegate earned a master’s degree in Acoustics from Penn State. There were 10 demonstration stations, and 12 volunteers (not counting Keeta Jones and Dan Russell) to interact with the students.

**3eED – Listen Up and Get Involved** – 5:00pm – *Coe* This session was **cancelled** prior to the meeting, due to lack of sufficient interest from local Girl Scout troops. Keeta and Dan spent the time assessing the condition of the demonstration equipment, sorting and repacking the crates, and beginning a list for items that need to be repaired, replaced or added (like clamps and rods for the strings and mass-spring demos).

### Other Jointly Sponsored Sessions (organized by another TC, but supported by ED)

**2aPPa – Acoustics Outreach to Budding Scientists: Planting Seeds for Future Clinical**

**Physiological Collaborations** – Tuesday 8:00am – *Carroll Ford* (co-sponsored by ED)

**2pAA – Higher Education Schools of Music** – Tuesday 1:00pm – *French* (co-sponsored by MU, ED)

**2pPPb – Cultivating New Growth by Composting Old Ideas: Pruning the Deadwood from the Garden of Psychological and Physiological Acoustics** – Tuesday 2:10pm – *Carroll Ford* (co-sponsored by ED)

**3pPPa – Diversity in Auditory Perception and Speech Communication** – Wednesday 1:30pm – *Carroll Ford* (co-sponsored by ED)

**4aNS – Increasing Noise Awareness in Society** – Thursday 8:00am – *Segell* (co-sponsored by ED)

## Future Meetings and Special ED Sessions

**ASA 178 – San Diego, CA (Fall 2019)** – these special ED sessions were finalized in Victoria

- **Hands-On Demos** – Keeta Jones and Dan Russell (and Traci Neilson?)
- **Listen Up and Get Involved** – Keeta Jones and Dan Russell (and Traci Neilson?)
- **Take 5’s** – Jack Dostal
- **Acoustics Textbooks (How to select a book for a course?)** – Jack Dostal and Dan Russell
  - The process of selecting a textbook when asked to teach a new course (or when the standard text goes out of print) can be a daunting task, given the variety (or lack thereof) of textbooks available for both general topics undergraduate courses or upper level special topics graduate courses. This session will focus on hints for how to determine which books might be appropriate for an acoustics course (at various levels, undergrad through graduate), how to evaluate the content of a textbook and its appropriateness as a text for the course being taught, how to use a new textbook for your course, and what to do when no single book seems to do provide what is needed.

- **Mentoring – ASA Student Mentor Award Winners** – Dan Russell (ID/Student Council/Early Career)
  - The mentoring of students at both undergraduate and graduate levels is a vital role of the faculty member and the transition from graduate student to new faculty member requires the former mentee to now become a mentor. Papers in this session will include best practices and guidelines for mentoring graduate and undergraduate students, along with tips for success, selecting students from a pool of applicants, dealing with problem students, mentoring across differences, and developing productive and rewarding mentoring relationships.
- **Grant and Fellowship Writing Panel** – sponsored by Student Council (co-sponsored by ED)
- **2019 Rossing Prize Lecture** – Need to get this added to the San Diego Schedule!!

### ASA 179 – Chicago, IL (Spring 2020) – these sessions must be finalized in Louisville

**NOTE: the Chicago meeting will be preceded by the ASA School 2020** (Itasca, IL – near O’Hare Airport – Fri-Sun. before Chicago Mtg.) – Information: <https://asastudents.org/asa-school-2020-living-in-the-acoustic-environment/>

- Hands-On Demos and Listen Up & Get Involved
- **Teaching Speech & Hearing Science to Undergraduates** – Freddie Bell-Berti (SC cosponsor by ED)
- **Musical Acoustics Education at Undergraduate Level** – Andy Morrison (MU cosponsor ED)
- **Undergraduate Research Exposition Poster Session** – Dan Russell (ID) **From Tech. Council => discuss at future ED Com meeting whether this is the best way to get undergraduates to present their work at ASA.**
- **Classroom Demonstrations for Teaching Acoustics** – Dan Russell. **This session was finalized during the Technical Council meeting on Friday, after realizing that there will not be another ASA meeting at a location centered in the U.S. for another several years. The proximity to the ASA School 2020 was another incentive for holding a demo session. We asked the Acoustics Outreach Council for a special initiative for Travel funds to help peoples ship demo equipment. We will contact TC chairs for MU, PA, SA, AA and ASA School 2020 instructors for potential invited demonstration speakers. After the formal presentation, we will have a “panel-discussion” time afterward for people to interact with the demos.**
- **Graduate Programs in Acoustics Poster Session** – (Dan Russell & Student Council => ID)
- **Larry Royster Memorial Session** – (organized by NS, cosponsored by ED) – perhaps we could have someone from ED present a history of the Royster Competition?
- **New Developments in Classroom Acoustics** – (AA and others, cosponsored by ED)
- **Wikipedia Edit-a-thon . . . (3-4 hour workshop)?** (Dan and Keeta, Tutorials)

### ASA 180 – Cancun, Mexico (Fall 2020) – must be finalized in San Diego

**Need Preliminary Session Plans (form online) by Friday**

- ~~Hands-On Demos~~
- ~~Listen Up and Get Involved~~
- Coordinate with Mexican counterparts?(AAPT Mexican section)
- Year of sound theme? (education based)
- Study abroad opportunities . . .
- Soundwalk? (sponsored by Noise??)
- **Social Media (TC webpages / using Twitter)**

### Future Meetings

- ASA 181 – Portland, OR (Spring 2021) -- **pending site approval**
- ASA 182 – Sydney, Australia (6-10 Dec. 2021)
- ASA 183 – Denver, CO (Spring 2022)
- **ASA 184 – Atlanta, GA (Fall 2022)**
- ASA 185 – Seattle, WA (Spring 2023)
- ASA 186 – Providence, RI (Fall 2023)
- ASA 187 – San Francisco, CA (Spring 2024)
- ASA 188 – Honolulu, HI (Fall 2024)
- ASA 189 – Philadelphia, PA (Spring 2025)

## Report from Keeta Jones (ASA Outreach)

### Update on ASA Teacher Activity Kits

- Report on requests and status of kits. (In Minneapolis we increased Kits budget from \$20,000 to \$25,000 to be able to send out more kits.). **Kits are currently being held up by supplier, not as many requested, problems with new ASA branding logos?**

### Update on Booths Initiative

There is some confusion in the ASA financial budgeting as to where the money we have previously requested has ended up. When Keeta inquired about the status funds while preparing to register booths for 2019 conferences, the amounts she was told we had available were much lower than the amounts we had requested (and were told we had received) at the Minneapolis meeting in May 2018. Keeta and Dan will work with ASA headquarters to resolve the confusion regarding our finances. In the meantime, as a result of this financial confusion, Keeta will only be staffing a booth at one meeting this year, **PhysCon 2019** (Providence, RI, Nov. 14-16, 2019). However, our support of PhysCon 2019 will not only include Keeta staffing a booth but will also include ASA support of the **Physics of Jazz Workshop**. In addition, Brad Conrad, the Director of the Society of Physics Students & Sigma Pi Sigma ( $\Sigma\Pi\Sigma$ ) regarding ASA's participation in PhysCon2019 asked for ASA to have greater presence at PhysCon2019

A motion was made (Vic Sparrow) and seconded (Ben Tucker), and passed (unanimous show of hands) to make the following three funds requests to the Outreach Committee at the Louisville meeting:

⇒ **Request a separate budget line item to support Intel ISEF** in the amount of **\$9700** which will be used to provide.

○ Prize Awards:

- 1<sup>st</sup> place – \$1500 (for student) + \$200 (for school) + \$500 (for mentor)
- 2<sup>nd</sup> place – \$1000 (for student) + \$100 (for school) + \$250 (for mentor)
- 3<sup>rd</sup> place – \$600 (for student) + \$150 (for mentor)

○ Travel Funds to help bring winners to ASA meeting – \$2000

- ASA will also provide free registration for student + guardian

○ Stipend per judge – \$300 per judge (usually 3, sometimes 4)

○ (Mandatory) Contribution to Participate – \$2500

○ NOTE: a summary of ASA support for Intel ISEF and names and photos of the 2018 Acoustics prize winners may be found at: <https://student.societyforscience.org/acoustical-society-america>

⇒ **Request an increase** in the separate line item for the **Booths Initiative** in the amount of **\$5,000**

- to allow Keeta (and 1-2 additional ASA representatives) to staff booths at a minimum of two meetings targeted to undergraduate students and/or teachers, like SACNAS, AAAS, AAPT, NSBP.

⇒ **Request a new initiative** for biennial support the **PhysCon** in the amount of **\$3,000**

- to support workshops, special speakers, workshops, tours, seminars and events at PhysCon in odd-numbered years (beginning 2021). The funds will also allow an ASA representative to attend PhysCon, exhibit, and promote ASA, and to distribute ASA swag material.

**Follow-up:** all three requests were approved by the Outreach Council and submitted to Executive Council.

### ExploreSound.org

- Keeta is no longer soliciting people for Profiles of Acousticians. Instead, she is using the Acoustician Profiles from issues of Acoustics Today.
- Graduate Program Database Update – name changed to “Acoustics Programs Database” to be more inclusive. Still room for many more entries, and there can be multiple entries from the same school.

### Involvement with global awareness of Acoustics

- International Noise Awareness Day April 25 (subcommittee within Noise TC)
- World Hearing Day (March 3)

At the conclusion of Keeta's report, Vic Sparrow initiated a well-deserved round of applause to thank Keeta for the excellent work she is doing on behalf of the ASA and the Education in Acoustics committee.

## Other Subcommittee Reports

### **SMMfL (Students Meet Members for Lunch) – Report by Martin Lawless**

- **SMMfL match-ups for Louisville** – For this meeting, we had **91 students** (up from 70 in Victoria) who filled out the questionnaire and 76 members. The automated program was able to successfully match 86 of the students, and we "manually" matched the remaining 5, and one fell through. Here are the number of matcher per TC:

AO = 2	AB = 2	AA = 16	BA = 5	EA = 4	MU = 4	NS = 2
PA = 5	PP = 11	SP = 5	SC = 22	SA = 6	US = 7	<b>Total = 91</b>

On behalf of the SMMfL subcommittee, I would like to thank David Blackstock for his 17 years of service as the chair of this subcommittee. He has been a champion of student mentorship within the society and has bolstered the professional growth of a countless number of students while in that role.

- **David Blackstock** asked to step down from chairing the SMMfL subcommittee (after 17 years of service!). Until a new SMMfL chair is appointed, Martin Lawless will serve as the co-chair.
- **Questions that came up during the meeting:**
  - Feedback form . . . for members who were not contacted by students . . .
  - What about government members who cannot sign up beforehand but who would like to participate
  - Can we have permanent members (for every meeting)? Instead of having to sign up each meeting?
  - What about last minute signup for people who become available at the last minute?

### **TPOM**

Need a new volunteer to help Matt Kamrath for San Diego (and Chicago) backed up by Dan Russell or Ben Tucker.

- Date for TPOM for San Diego is **August 15**
- Technical Council is developing new guidelines for TPOM reps. These will be made available as soon as they are finalized.

### **Student Council**

Report from ED Student Council Liaison, ~~Michael Rollins (unable to attend)~~ (Trevor Jerome)

New chair is Karen Smith.

New initiative – more people power (volunteers)

## Current Business (items discussed at ASA 177 Louisville)

### **2020 is the International Year of Sound**

The International Commission for Acoustics (ICA) has declared 2020 the International Year of Sound (IYS 2020). The purpose is to highlight the importance of sound in all aspects of life on earth and will work towards an understanding of sound-related issues at the international level. The ICA IYS 2020 Steering Committee will coordinate all activities, and **ASA has been asked to nominate a coordinator to be the primary contact with the ICA IYS steering committee.** Any members of ED Com interested?

### **Proposal for AAPT Waves Workshop for Middle School Teachers**

Gordon Ramsey is coordinating a team from AAPT and OSA and ASA to organize, develop, 2-day workshop on Waves (Optics and Acoustics) for middle school teachers, focusing on areas with underrepresented students (first targets are Chicago and Baltimore in summer 2020). Gordon, Keeta Jones, Andy Morrison, Judy Dubno, and Dan Russell are developing a proposal. Comments from Gordon. Any members of ED Com interested in getting involved? Or does anyone know people who have done workshops like this? [gramsey@luc.edu](mailto:gramsey@luc.edu)

3-5 volunteers – who have been involved with outreach (middle school). – review existing materials, take the best to incorporate materials a workshop. Develop proposal for Venture fund. Teams in place by July 2019.

### Special Issue on JASA Education in Acoustics

- Last special issue on education was 7 years ago . . . 2012 vol. 131 issue 3.
- Preston Wilson and Dan Russell will co-coordinate and co-guest edit this Special Issue. Call for Papers will go out late 2019 or early 2020.

**POMA** – Dan Russell is new associate editor for Education.

- Encourage presenters to write up papers for POMA (summarize Kent Gee’s paper 2pID4 about using POMA as a tool to help develop writing skills in students)
- Question about publishing POMA **before** the meeting so copies are available to reference during the talk or during the meeting?
- What is the process for detecting POMA submissions (after the meeting) for presenters who did not show up to present the paper?

### Items Brought Up at Victoria (and Louisville?) Tech Council Meetings

Feedback requested from ED to report back to Tech Council

- **Photography Policy** – Current ASA policy forbids photography during presentations (without prior approval from ASA), but LOTS and LOTS of attendees take photos during talks.  
At ASA Louisville 177, there is a slide in the room on the computers . . . with projectors . . . that is supposed to be displayed between every single talk . . . Photography (. . .) by attendees is explicitly prohibited unless permission is granted by the presenters.  
What about having authors put an icon on their



slides?

- **Approval of Abstracts** – there is no current policy for reviewing abstracts before acceptance. TPOM rep sorts abstracts into specific sessions but does not filter (accept/reject) abstracts. There have been some prior problems – Wind Turbine papers (political vs scientific) and adverts for books/products. Technical Council will be adding a statement to the Call for Papers that states that submitted abstracts should be relevant to the field of acoustics, focus on scientific developments, and avoid statements of political advocacy or explicit advertisement of products. Submitted abstracts may not be accepted for the conference. Acceptance is based on the following factors: adherence to the guidelines given here, clarity of writing, originality of the contribution, appropriateness of the subject matter to the ASA, correctness of the content, and the significance of the contribution. The ASA reserves the right to refuse acceptance of any submitted abstract without giving extensively documented reasons.

### Old Business (items raised at ASA 176 Victoria)

#### ED Com Website ([asaedcom.org](http://asaedcom.org))

- Who is the target audience for this website?
- How is it being used (by members? by others?)
- What could we do better with this website to make it more useful?
- Who should be in charge of updating/revising our webpages?

At ASA 176 Victoria, it was suggested that we create a subcommittee to explore some of the questions raised (see Victoria ASA 176 minutes). The subject of ASA TC webpages also came up at the Web Council meeting . . . it is a society wide problem.

- Keeta Jones is going to start making some updates and redesign of the Ed Com webpages, with input from Dan Russell.

#### ASA Teacher Activity Kits

- Is it time to create an Activity Kit 2.0 ?
  - Like Optical Society does with their two-tier kits
  - Single project theme (instead of multiple separate lesson plans)
- Time to revisit the original kit content and design?

Advisory Council – put Keeta in charge of the kit improvement . . . other members interested in serving on a subcommittee included: Ben Tucker, Andy Morrison, Dan Russell, Brian Monson

### ASA Auditory Demonstrations CD

- Why is this not available on iTunes? Spotify? Googleplay?
  - Propose through Books Committee?
  - YouTube channel?
- Who owns the rights? Who could approve  
We need to bring this question up at the Outreach Council to be taken to the Executive Council

### Undergraduate Research Symposium and Robert Young Award?

- Apply in Summer/Fall – present in Spring?
- Do research during year or over summer?
- When to present at ASA? (next Undergraduate Research Symposium is Chicago 2020)
- ~~When to submit abstract to ASA meeting – do they have to meet the ASA meeting abstract deadlines?~~
  - ~~Name and topics due by Abstract deadline~~
  - ~~In order to submit to POMA do you have to have an abstract (paper number) in the program guide?~~
  - Could POMA have a special issue just for undergrads? Just a special session in ED.

Abstract deadline for students in January (with normal call for papers)

- We need to do a better job of **advertising** and **broadcasting** the announcement for the Young Award and the Undergraduate Research Symposium in order to raise awareness and to increase the number of submitted posters. Question was raised at the Friday Technical Council for discussion at future ED Com meeting whether this is the best way to get undergraduates to present their work at ASA.

### Special Vendor Session for Students

- At meetings with Vendor Sponsors – have a time/session for students to meet vendor reps to talk about companies, jobs, careers, etc. **NO Vendors at this meeting . . . could a opportunities to interview students (potential employees) entice vendors to come?**

### New Business (items for future discussion)

No new business was raised.

### Wrap Up and Adjourn

Move to adjourn at 6:00pm. Motion by Andy Piacsek, seconded by David Dowling.