



AES 50th International Conference

# Audio Education

July 25-27, 2013 • Murfreesboro, TN, USA

## Schedule of Events

|          |  |                  |                                 |                         |      |                    |                             |                                  |               |              |                         |    |    |                  |                          |                  |                      |                         |             |                          |  |  |      |  |                          |  |  |  |
|----------|--|------------------|---------------------------------|-------------------------|------|--------------------|-----------------------------|----------------------------------|---------------|--------------|-------------------------|----|----|------------------|--------------------------|------------------|----------------------|-------------------------|-------------|--------------------------|--|--|------|--|--------------------------|--|--|--|
|          |  | Room             |                                 | 9:00                    | 9:30 | 10                 | 10:30                       | 11:00                            | 11:30         | 12:00 - 1:00 | 1:00 - 2:20             |    |    |                  | 2:30-3:50                |                  |                      |                         | 4:00 - 5:30 |                          |  |  | 7:00 |  |                          |  |  |  |
|          |  | Mass Comm Atrium |                                 | Coffee - Meet and Greet |      |                    |                             |                                  |               | Lunch        |                         |    |    |                  |                          |                  |                      |                         |             |                          |  |  |      |  |                          |  |  |  |
| Thursday |  | CoE 160          |                                 | Product Demo Rooms      |      |                    |                             | W12 NARAS Pearl Cohn High School |               |              | Keynote Bob McCarthy    |    |    |                  | W1 Education Report Card |                  |                      |                         |             |                          |  |  |      |  | Banquet DoubleTree Hotel |  |  |  |
|          |  | CoE 164          |                                 |                         |      |                    | 66                          | 6                                | 17            |              |                         |    |    |                  |                          |                  |                      | W10 System Optimization |             |                          |  |  |      |  |                          |  |  |  |
|          |  | CoE 153          |                                 |                         |      |                    |                             |                                  |               |              |                         |    |    |                  |                          |                  |                      |                         |             |                          |  |  |      |  |                          |  |  |  |
|          |  | Comm 101         |                                 |                         |      |                    |                             |                                  |               |              |                         |    |    |                  |                          |                  |                      |                         |             |                          |  |  |      |  |                          |  |  |  |
|          |  | Comm 191         |                                 |                         |      |                    |                             |                                  |               |              |                         |    |    |                  |                          |                  |                      |                         |             | W13 Harman Listening Lab |  |  |      |  |                          |  |  |  |
|          |  | Demo Rooms       |                                 | Product Demo Rooms      |      |                    |                             |                                  |               |              |                         |    |    |                  |                          |                  |                      |                         |             |                          |  |  |      |  |                          |  |  |  |
|          |  |                  |                                 |                         |      |                    |                             |                                  |               |              |                         |    |    |                  |                          |                  |                      |                         |             |                          |  |  |      |  |                          |  |  |  |
|          |  | Room             | 8:30                            | 9:00                    | 9:30 | 10                 | 10:30                       | 11:00                            | 11:30 - 12:30 | 12:30 - 1:30 | 1:30 - 3:00             |    |    |                  | 3:15 - 4:15              |                  | 4:15 - 5:15          |                         |             |                          |  |  | 6:30 |  |                          |  |  |  |
|          |  | Mass Comm Atrium | Coffee                          |                         |      |                    |                             |                                  |               | Lunch        |                         |    |    |                  | 3:15 - 4:15              |                  | 4:15 - 5:15          |                         |             |                          |  |  |      |  |                          |  |  |  |
| Friday   |  | CoE 160          |                                 |                         |      | Product Demo Rooms | W3 Industry Perspectives    |                                  |               |              | W7a Ear Training        |    |    |                  | W8 Metadata              |                  | W2 Internship Models |                         |             |                          | Studio Crawl - Music Row<br>RCA Studio B, Ben's Studio |  |      |  |                          |  |  |  |
|          |  | CoE 164          |                                 |                         |      |                    |                             |                                  |               |              |                         |    |    |                  |                          |                  |                      |                         |             |                          |  |  |      |  |                          |  |  |  |
|          |  | CoE 153          | W11a Effective College Teaching |                         |      |                    |                             |                                  |               |              |                         |    |    |                  |                          |                  |                      |                         |             |                          |  |  |      |  |                          |  |  |  |
|          |  | Comm 101         | 24                              | 35                      | 27   |                    |                             | 37                               | 18            |              |                         | 25 | 40 | 53               |                          | 15               | 54                   |                         |             |                          |  |  |      |  |                          |  |  |  |
|          |  | Comm 191         |                                 |                         | 41   |                    |                             |                                  |               |              |                         |    |    |                  |                          |                  |                      | 42                      | 55          |                          |  |  |      |  |                          |  |  |  |
|          |  | Demo Rooms       |                                 | Product Demo Rooms      |      |                    |                             |                                  |               |              |                         |    |    |                  |                          |                  |                      |                         |             |                          |  |  |      |  |                          |  |  |  |
|          |  |                  |                                 |                         |      |                    |                             |                                  |               |              |                         |    |    |                  |                          |                  |                      |                         |             |                          |  |  |      |  |                          |  |  |  |
|          |  | Room             | 8:30                            | 9:00                    | 9:30 | 10                 | 10:30                       | 11:00                            | 11:30         | 12:00 - 1:00 | 1:00 - 2:00             |    |    | 2:15             | 2:45                     | 3:15             | 3:30 - 5:00          |                         |             |                          |  |  | 6:30 |  |                          |  |  |  |
|          |  | Mass Comm Atrium | Coffee                          |                         |      |                    |                             |                                  |               | Lunch        |                         |    |    | 2:15             |                          | 3:15             | 3:30 - 5:00          |                         |             |                          |  |  |      |  |                          |  |  |  |
| Saturday |  | CoE 160          |                                 |                         |      |                    | W6 Masters Level and Beyond |                                  |               |              | W5 Grading the Creative |    |    |                  |                          | W4 Accreditation |                      |                         |             |                          | Lower Broad Honky Tonks                                |  |      |  |                          |  |  |  |
|          |  | CoE 164          |                                 |                         |      |                    |                             |                                  |               |              |                         |    |    | 21               | 65                       |                  |                      |                         |             |                          |  |  |      |  |                          |  |  |  |
|          |  | CoE 153          | W11b Effective College Teaching |                         |      |                    |                             |                                  |               |              |                         |    |    |                  |                          |                  |                      |                         |             |                          |  |  |      |  |                          |  |  |  |
|          |  | Comm 101         | 60                              | 33                      | 23   |                    | 62                          | 49                               |               |              | 50                      | 45 |    |                  |                          |                  |                      |                         |             |                          |  |  |      |  |                          |  |  |  |
|          |  | Comm 191         | 43                              | 13                      | 57   |                    | 46                          | 56                               |               |              |                         |    |    | W7b Ear Training |                          |                  |                      |                         |             |                          |  |  |      |  |                          |  |  |  |
|          |  | Demo Rooms       |                                 | Product Demo Rooms      |      |                    |                             |                                  |               |              |                         |    |    |                  |                          |                  |                      |                         |             |                          |  |  |      |  |                          |  |  |  |

### Product Demo Rooms

Control Room A API

Control Room B SSL

Studio A Parsons Audio, Harrison

Studio B Harman, Focal Press, NARAS

Comm 174 Genelec

Comm 183 Waves

Studio B Iso Prism Sound

GENELEC®  
ACTIVE MONITORING

Parsons Audio  
cutting edge solutions-classic service



HARMAN

Solid State Logic  
SOUND | VISION



Meyer Sound



WAVES



**PAPER SESSIONS**

| <b>ID</b> | <b>TITLE</b>  | <b>AUTHOR(S)</b>                |
|-----------|---|---------------------------------|
| 6         | <i>Why Didn't you Learn This at Recording School?</i>   | Douglass Biellemeier            |
| 13        | <i>Learn about Harmonics by means of Vacuum Tube Guitar Amplifier</i>   | Toshihiko Hamasaki              |
| 15        | <i>Atlantic Crossing: 20 Years of Music Production and Recording at the University of Stavanger</i>   | Mark Drews                      |
| 17        | <i>Embedding of employer and practitioner input into student portfolios – Results of project commissioned by the UK Higher Education Academy</i>                      | Mark Thorley                    |
| 18        | <i>Sea and sound waves: Islands of the North Atlantic and the challenges of on-line music collaboration in a new Scottish university</i>                              | Miriam Iorwerth, Mark Sheridan  |
|           |   | David Paterson, Bryan Peterson  |
| 21        | <i>From Practice to Research and Back Again: Research Skills in Audio Engineering Education</i>   | M. Nyssim Lefford, Jan Berg     |
| 23        | <i>The Case of the Unsuccessful Student: Exploring an Assessment Model Used at a Canadian For-Profit Postsecondary Institution</i>                                    | Benjamin Coulas                 |
| 24        | <i>Critical Listening and Acoustics as an Essential Part of the Audio Production and Sound Technology Curriculum</i>  | Paul Thompson, Ben Mosley       |
|           |   | Michael Ward                    |
| 25        | <i>Teaching Analog Signal Flow in the Interactive Virtual Environment</i>   | Gabe Herman                     |
| 27        | <i>Utilizing Effective Media, Demonstrations and Exercises on the Perception of Sound</i>   | Sandra Guzman, S. Benjamin      |
|           |   | Kanters, Pantelis Vassilakis    |
| 33        | <i>Creating a System to Assist the Educator in the Training of the Novice Boom Operator</i>   | Peter Damski                    |
| 35        | <i>Ear training for non-technical students using a web-based training system</i>  | Akira Nishimura                 |
| 37        | <i>Feedback Frequency Identification and Reduction Primer (FFIRP): Development of a Training and Application E-book</i>   | Mike Estep, Chuiyuan Meng       |
| 40        | <i>Thinking Inside the Box: An Overview of Teaching Mixing</i>  | John Merchant                   |
| 41        | <i>A Collegiate Audio Internship Program: A Comprehensive Model</i>   | Daniel Pfeifer                  |
| 42        | <i>Communication, Collaboration, Creativity and Communities of Practice: Music technology courses as a gateway to the industry</i>                                    | Steve Parker, Bob Davis         |
| 43        | <i>Teaching Audio Signal Processing Theory without Calculus or Complaints</i>   | Will Pirkle                     |
| 45        | <i>Approaches to Signal Flow Pedagogy: A Black Box Model and Scalable, Interactive Studio Modeling Using Prezi Presentation Software</i>                              | Ian Anderson                    |
| 46        | <i>Recording Our Future: A Collaborative Audio Production Learning Experience</i>   | Daniel Wood                     |
| 49        | <i>Encouraging Students Towards Meaningful Subjective Comparisons</i>   | Bradford Swanson                |
| 50        | <i>Constructionist learning with Pure Data: a graphical environment for audio and MIDI programming</i>  | Aaron Reece                     |
| 53        | <i>Audio Engineering as Co-operation. Learning Experience in a Multi-Professional University Learning Environment</i>   | Erik Nordström,                 |
|           |   | Caroline Stenbacka Nordström    |
| 54        | <i>A review of the status of audio engineering education in Australia</i>   | Mesia McKinnon-Bassett          |
| 55        | <i>Professional Certification's Place in Higher Education</i>   | Adam Olson                      |
| 56        | <i>Experimental comparison of two versions of a technical ear-training program: Transfer of training on tone colour identification to a dissimilarity-rating task</i> | Mark McKinnon-Bassett,          |
|           |   | William Martens, Densil Cabrera |
| 57        | <i>A Simple, Educational Microphone Preamplifier Design to Support the Teaching of Introductory Electronics to Students of Audio</i>                                  | Robert-Eric Gaskell             |
| 60        | <i>Education for Music Production in Africa: An Imperative for Progress</i>   | David Gleeson                   |
| 62        | <i>Capturing Artifacts to Track the Knowledge, Skills, &amp; Dispositions of Recording Arts Students</i>  | Lorne Bregitzer                 |
| 65        | <i>Undergraduate First Semester Audio Project</i>   | Christopher Plummer             |
| 66        | <i>Are Audio Education Programs Keeping Pace with New Developments in Industry?</i>   | David Scheirman                 |

**PANELS AND WORKSHOPS**

| <b>ID</b> | <b>TITLE</b>   | <b>PANELISTS AND PRESENTERS</b>   |
|-----------|--|---|
|           | Keynote Address  | Bob McCarthy  |
| W1        | Audio Education Report Card  | Mark Rubel, David Tough, Douglass Biellemeier, Kirk Imamura               |
| W2        | Current Practices in the Delivery and Assessment of Internships in Audio Education | Daniel Wujcik, Daniel Pfeifer, John Krivit                                |
| W3        | Beyond the Recording Studio: Industry Career Options for Audio Program Graduates   | David Scheirman, Fadi Hayek, Scott Pederson, Buford Jones                 |
| W4        | Accreditation, Certification, and Licensure: A Place in Audio Education?           | S. Alex Ruthmann, Wesley Bulla, Adam Olson                                |
| W5        | Assessment Tools - Grading the Creative  | Phil Valera, Christopher Plummer, Curtis Craig                            |
| W6        | Audio Education at the Masters Level and Beyond                                    | Michael Fleming, Jan Berg, Leslie Gaston, Jamie Tagg                      |
| W7        | Towards a Systematic Ear Training Curriculum                                       | Sungyoung Kim, Timothy J. Ryan, Jason Corey, Doyuen Ko, Kazuhiko Kawahara |
| W8        | Integrating Metadata Education into Existing Recording Curricula                   | Cosette Collier, John Spencer, Alison Booth, Maureen Droney, Bil VornDick |
| W11       | Effective College Teaching   | Jane Williams   |
| W10       | Introduction to Sound System Optimization  | Bob McCarthy  |
| W12       | Pearl-Cohn High School   | Maureen Droney, Jeff Balding, Laurie T. Schell, Susan Stewart, Sam Lorber |
| W13       | Harman Listening Lab   | David Scheirman, Sean Olive   |