

Jim DeGrandis

Professional Reference Compendium

Publications · Patents · Presentations · Professional Service · Education · Research · Citations

15	3	10+	10
authored/co-authored publication records	U.S. patents	ASA presentation/service records	JASA patent-review issues located

Reference date: 23 August 2026

A concise professional record compiled from the DeGrandis Works Publications & Research Dossier. Dates, citations, roles, publication details, and reference links are retained in a compact reference format.

Science in service of listening.

Contents

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1. Positions, appointments & professional service

- Computer Technology Instructor, Shriver Job Corps Center, Mount Wachusett Community College, Massachusetts — 2004-2008.
Reference: <https://catalog.mwcc.edu/previouscatalogs/>
 - Acoustical Society of America, Education in Acoustics Committee — membership record with term to 2027.
Reference: <https://asaedcom.org/members/>
 - Acoustical Society of America 2026-2027 Committee Book — Architectural Acoustics Technical Specialty Group, term to 2029; Computational Acoustics Technical Specialty Group, term to 2029; Education in Acoustics Technical Specialty Group, 2025-2028.
Reference: <https://acousticalsociety.org/wp-content/uploads/2026/08/2026-2027-committee-book.pdf>
 - Technical Committee on Architectural Acoustics (TCAA) — Education standing-report service in meeting records from 2020 through 2024.
Reference: <https://tcaaasa.org/>
 - ASTM International Committee E33 working-group service — E33.05P Research Diffusion/Diffraction and E33.01C Diffusion Standard Group.
Reference: https://tcaaasa.org/meet/TCAA_Kansas_City_Minutes_v1.pdf
 - ASA / AIA Continuing Education — authorized presenter for the TCAA-developed AIA/CES HSW “Architectural Acoustics” program.
Reference: <https://acousticsfirst.info/category/company-information/>
 - Journal of the Acoustical Society of America, “Reviews of Acoustical Patents” — reviewer roster listings in at least ten indexed issues from 2020 through 2023.
Reference: <https://pubs.aip.org/asa/jasa/article/154/3/1347/2909308/REVIEWS-OF-ACOUSTICAL-PATENTS>
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2. Publications & authored papers

Chronological reference list. The 2015 JASA meeting abstract and the archival POMA paper are separate bibliographic records for the same research line. The 2023 Construction Canada article is an adaptation/related publication of the 2022 Construction Specifier article.

1. DeGrandis, James. "Setting the Soundstage: How to Treat Your Home Theater Like a Real Theater." HomeToys, October/November 2012.

Trade/educational article on home-theater acoustics, including bass trapping, broadband absorption, early-reflection control, and diffusion.

Preserved full text: <https://www.acousticsfirst.com/article-setting-the-sound-stage-how-to-treat-your-home-theater-like-a-real-theater.htm>

- Original HomeToys URL preserved in archive metadata:** <http://www.hometoys.com/emagazine/2012/10/setting-the-soundstage-how-to-treat-your-home-theater-like-a-real-theater/1977>
2. DeGrandis, James. "DIY: How to Build a Studio GoBo." Acoustics First Blog, 18 April 2013.
Practical educational article on constructing a mobile diffuser/absorber GOBO for small-room recording and isolation.
Article: <https://acousticsfirst.info/2013/04/18/diy-how-to-build-a-studio-gobo/>
 3. Colleran, Nick, and Jim DeGrandis. "Need an Acoustical Intervention?" Church Executive, 30 May 2014.
Co-authored trade article on reverberation, intelligibility, multipurpose worship spaces, historic spaces, and practical acoustic treatment.
Article: <https://churchexecutive.com/archives/need-an-acoustical-intervention>
 4. DeGrandis, James J. "Particle Simulations Advance Insight into Diffusion Device Design, Efficiency, Diffuse Field Development and Propagation." The Journal of the Acoustical Society of America 137, no. 4, Pt. 2 (April 2015): 2333.
169th Meeting of the Acoustical Society of America, Pittsburgh, Pennsylvania, 20 May 2015, Session 3pAA3.
ASA meeting abstract/presentation record. It describes the transition from the 2011 Ping-Pong-ball diffusion demonstration to particle/ray-trace simulation as a way to visualize and evaluate diffuser behavior.
ASA meeting program: https://acousticalsociety.org/wp-content/uploads/2018/02/Pittsburgh_full_program.pdf
 5. DeGrandis, James J. "Particle Simulations Advance Insight into Diffusion Device Design, Efficiency, Diffuse Field Development and Propagation." Proceedings of Meetings on Acoustics 23, no. 1 (2015): 015002. DOI: 10.1121/2.0000091.
Archival proceedings paper expanding the 2015 ASA presentation; later academic work cites this paper.
DOI: <https://doi.org/10.1121/2.0000091>
AIP/ASA PDF: https://pubs.aip.org/asa/poma/article-pdf/doi/10.1121/2.0000091/18213278/pma.v23.i1.015002_1.online.pdf
 6. DeGrandis, Jim. "Gymnatorium Absorption." Sound & Communications, February 2016.
Trade article on acoustic treatment of multipurpose gym/auditorium spaces.
Issue index: <https://www.soundandcommunications.com/february-digital-edition/>
 7. DeGrandis, Jim. "Sound Diffusion: The Movement Toward Omnipresence." audioXpress, August 2017, pp. 28-30. US ISSN 1548-0628.
Technical feature on diffuser design, measurement, simulation, practical application, and the movement toward richer diffusion data/standards.
Article PDF mirror: <https://acousticsfirst.info/wp-content/uploads/2017/08/ap-degrandis.pdf>
audioXpress issue announcement: <https://audioxpress.com/news/audioxpress-august-2017-acoustics-in-focus-now-available>
Acoustics First article page: <https://acousticsfirst.info/2017/08/17/sound-diffusion-the-movement-toward-omnipresence/>
 8. DeGrandis, James J., Hassan Azad, and Ronald Sauro. "Using Laboratory Measurement Data to Improve Acoustic Simulations and Evaluate Performance." The Journal of the Acoustical Society of America 144, no. 3, Pt. 2 (September 2018): 1815. DOI: 10.1121/1.5068008. 176th ASA Meeting, Victoria, British Columbia, 7 November 2018, Session 3aAA11.
Research abstract connecting granular laboratory measurement data with particle, wave-based, and computational acoustic models.
DOI: <https://doi.org/10.1121/1.5068008>
ASA Wednesday program: https://acousticalsociety.org/wp-content/uploads/2018/10/Wednesday_1813-1880.pdf
University publication index: <https://www.eaarlab.com/publications>
 9. DeGrandis, Jim. "Learn About Your Room's Acoustic System - and How to Improve It." Religious Product News, October 2019, pp. 32-34.
Educational/trade article framing the room itself as an acoustic system and explaining practical listening and treatment concepts.
Online article: <https://www.religiousproductnews.com/church-avl-learn-about-your-rooms-acoustic-system-and-how-to-improve-it/>
PDF mirror: <https://acousticsfirst.info/wp-content/uploads/2019/10/learn-about-your-rooms-acousti-system-and-how-to-improve-it.pdf>

10. DeGrandis, Jim. "A New Understanding of Diffusion." Sound & Communications, February 2020. Authorized reprint: "Industry POV: A New Understanding of Diffusion," Enjoy the Music.com, April 2020.

Technical article on multidimensional diffusion behavior, ASTM diffusion/diffraction research, hemispheric impulse-response measurement, phase, directivity, energy, and simulation.

Authorized reprint/full text:

https://www.enjoythemusic.com/magazine/viewpoint/0420/Understanding_Diffusion_Acoustics_First_Corporation.htm

PDF mirror: <https://acousticsfirst.info/wp-content/uploads/2020/03/snc2020pov.pdf>

11. DeGrandis, Jim. "Acoustic Praxis: The Elephant in the Lab." audioXpress, August 2020; web version published 8 September 2020.

Technical/opinion feature on uncertainty, repeatability, laboratory test limitations, material data, and improving the usefulness of measurement data for acoustic modelling and simulation.

audioXpress article: <https://audioxpress.com/article/acoustic-praxis-the-elephant-in-the-lab>

audioXpress Jim DeGrandis tag/index: <https://audioxpress.com/tags/jim-degrandis>

Issue announcement: <https://audioxpress.com/news/focus-on-acoustics-and-the-best-in-audio-with-audioxpress-august-2020>

12. DeGrandis, Jim. "Church Acoustics: Past, Present and Future Challenges." Technologies for Worship Magazine, August 2020, pp. 33-36.

Trade/educational article addressing occupancy changes, streaming environments, isolation, intelligibility, listening comfort, and sound-level considerations in worship spaces.

Issue PDF: <https://tfwm.com/wp-content/uploads/2024/01/August-2020-issue.pdf>

Article PDF mirror: <https://acousticsfirst.info/wp-content/uploads/2020/10/tfwm-2020august.acoustics.pdf>

13. DeGrandis, Jim. "Absorption and Diffusion: Creating Optimal Acoustic Spaces." The Construction Specifier, May 2022, pp. 20-29; online publication 22 April 2022.

Architectural/specification article explaining the selection and use of absorptive and diffusive finishes for different room functions.

Article: <https://www.constructionspecifier.com/absorption-and-diffusion-creating-optimal-acoustic-spaces/>

Archived issue/article PDF: <https://acousticsfirst.info/wp-content/uploads/2022/04/the-construction-specifier-may2022-optimized.pdf>

14. DeGrandis, Jim. "Fostering Relationships Between Industry and Academia Is Good Business." The Journal of the Acoustical Society of America 152, no. 4 Supplement (2022): A253. DOI: 10.1121/10.0016184. Invited paper, 183rd ASA Meeting, Nashville, Tennessee, 8 December 2022, Session 4pED1.

Invited education paper/abstract on industry-academic partnerships, mentoring, research resources, knowledge exchange, and long-term benefits to students, institutions, and industry.

DOI: <https://doi.org/10.1121/10.0016184>

ASA meeting program: https://acousticalsociety.org/wp-content/uploads/2022/11/PAS_152_4_pt2.pdf

15. DeGrandis, Jim. "Specifying Sound Absorption and Diffusion for Optimal Acoustic Spaces." Construction Canada, 18 May 2023.

Canadian architectural/specification adaptation/related version of the 2022 Construction Specifier article.

Article: <https://www.constructioncanada.net/specifying-sound-absorption-and-diffusion-for-optimal-acoustic-spaces/>

3. Patents & invention

1. Degrandis, James J.; Joseph E. Horner; and C. Nicholas Colleran, Jr. "Ripple Diffuser." U.S. Design Patent D743,091 S1. Application 29/462,948. Filed 9 August 2013; issued 10 November 2015. Assignee: Acoustics First Corporation.

Design patent associated with the Art Diffusor Model D / ripple diffuser design.

Google Patents: <https://patents.google.com/patent/USD743091S1/en>

Justia: <https://patents.justia.com/patent/D743091>

2. DeGrandis, James John, and Samuel Jennings Colleran. "Systems, Apparatuses, and Methods for Sound Diffusion." U.S. Patent 10,255,900 B2. Filed 13 January 2017; issued 9 April 2019. U.S. Patent Application Publication 2017/0206884 A1, published 20 July 2017. Assignee: Acoustics First Corporation.

Utility patent covering modular/segmentable acoustic diffuser systems and multiple installation geometries.

Google Patents - grant: <https://patents.google.com/patent/US10255900B2/en>

Google Patents - application: <https://patents.google.com/patent/US20170206884A1/en>

3. DeGrandis, James John, and Samuel Jennings Colleran. "Acoustic Panel." U.S. Design Patent D888,997 S1. Application 29/601,430. Filed 21 April 2017; issued 30 June 2020. Assignee: Acoustics First Corporation.

Design patent identified with the Aeolian acoustic panel/diffuser.

Google Patents: <https://patents.google.com/patent/USD888997S1/en>

Justia: <https://patents.justia.com/patent/D888997>

4. Presentations, invited papers & session leadership

1. 169th Meeting of the Acoustical Society of America, Pittsburgh, 20 May 2015. Session 3pAA3: James J. DeGrandis, "Particle Simulations Advance Insight into Diffusion Device Design, Efficiency, Diffuse Field Development and Propagation."

Program: https://acousticalsociety.org/wp-content/uploads/2018/02/Pittsburgh_full_program.pdf

2. 175th Meeting of the Acoustical Society of America, Minneapolis, 2018. Session 1pAA5: Ronald Sauro, "Diffusion: How New Research and Data Formats Can Be of Use in Simulations." The abstract explicitly states that the presentation includes research by Sauro and extensions by Jim DeGrandis, including new graphs using phase data and psychoacoustic interpretation.

ASA program: <https://acousticalsociety.org/wp-content/uploads/2018/04/mondaytofriday.pdf>

3. 176th Meeting of the Acoustical Society of America, Victoria, 7 November 2018. Session 3aAA11: James J. DeGrandis, Hassan Azad, and Ronald Sauro, "Using Laboratory Measurement Data to Improve Acoustic Simulations and Evaluate Performance."

Program: https://acousticalsociety.org/wp-content/uploads/2018/10/Wednesday_1813-1880.pdf

4. Technical Committee on Architectural Acoustics (TCAA), 178th meeting minutes/planning, San Diego 2019. Future-meeting plan lists "The rapid advancements in measuring diffusion (diffraction) in today's world" with Ronald Sauro and Jim DeGrandis as organizers for the planned 180th meeting.

TCAA minutes: <https://tcaaasa.org/wp-content/uploads/2020/04/178-TCAA-San-Diego-Minutes.pdf>

5. TCAA / Education standing report records, 2020-2024. Multiple TCAA agendas/minutes list "Education (Jim Degrandis)" or "Education (Jim Degrandis, Lucky Tsiah)," documenting continuing education liaison/service within Architectural Acoustics.

Meeting records include Fall 2020, Spring 2021, Fall 2021, Nashville 2022, and Virtual Meeting 187 (2024).

Fall 2020 agenda: <https://tcaaasa.org/wp-content/uploads/2020/12/AVE-TCAA-Agenda.pdf>

Spring 2021 minutes: <https://tcaaasa.org/wp-content/uploads/2021/10/AiF-TCAA-minutes-2021-06-08.pdf>

Fall 2021 agenda: <https://tcaaasa.org/wp-content/uploads/2021/12/181-Seattle-TCAA-Agenda.pdf>

Nashville 2022 minutes: <https://tcaaasa.org/wp-content/uploads/2023/01/183-Nashville-TCAA-minutes.pdf>

Virtual Meeting 187 minutes: <https://tcaaasa.org/wp-content/uploads/2025/05/TCAA-MINUTES-VIRTUAL-MEETING-187-Final.pdf>

6. 182nd ASA Meeting, Denver, 24 May 2022. Session 2pED, "Education in Acoustics, Engineering Acoustics, and Architectural Acoustics: Connecting Industry and Education." Cochairs: Daniel A. Russell and Jim DeGrandis.

Denver program: <https://acousticalsociety.org/wp-content/uploads/2022/06/Denver-program.pdf>

7. 183rd ASA Meeting, Nashville, 8 December 2022. Session 4pED, "Education in Acoustics: Connecting Industry and Education." Cochairs: Jim DeGrandis and Daniel A. Russell.

Nashville program: https://acousticalsociety.org/wp-content/uploads/2022/11/PAS_152_4_pt2.pdf

8. Acoustical Society of America, Education in Acoustics Committee. Current membership page captured in 2026 lists Jim DeGrandis with term to 2027.

Committee membership: <https://asaedcom.org/members/>

9. Joint Acoustical Society of America / Acoustical Society of Japan Meeting, Honolulu, 4 December 2025. Session 4aAA, "Architectural Acoustics: Advances in Absorption Measurement and Design I." Cochairs: Daniel H. Robinson, Jim DeGrandis, Toshiki Hanyu, and Tetsuya Sakuma.

Recent architectural-acoustics session leadership.

ASA/ASJ program: <https://acousticalsociety.org/wp-content/uploads/2025/11/honolulu-programrevised1.pdf>

Acoustics First recap: <https://acousticsfirst.info/2026/01/23/joint-asa-asj-meeting-2025-recap/>

10. Acoustical Society of America. 2026-2027 Committee Book. James J. DeGrandis is listed in the Architectural Acoustics Technical Specialty Group (term to 2029), Computational Acoustics Technical Specialty Group (term to 2029), and Education in Acoustics Technical Specialty Group (2025-2028).

ASA 2026-2027 Committee Book: <https://acousticalsociety.org/wp-content/uploads/2026/08/2026-2027-committee-book.pdf>

5. Teaching, continuing education & demonstrations

1. Mount Wachusett Community College, Massachusetts. Computer Technology Instructor, Shriver Job Corps Center — 2004-2008.

Mount Wachusett Community College directories list JAMES J. DEGRANDIS as "Computer Technology Instructor, Shriver Job Corps Center" in the 2005-2006, 2006-2007, and 2007-2008 catalogs.

MWCC Previous Catalogs archive: <https://catalog.mwcc.edu/previouscatalogs/>

2005-2006 catalog, directory p. 231: <https://mwcc.edu/wp-content/uploads/2026/03/catalog2005.pdf>

2006-2007 catalog, directory pp. 240-241: <https://mwcc.edu/wp-content/uploads/2026/03/catalog2006.pdf>

2007-2008 catalog, directory pp. 242-243: <https://mwcc.edu/wp-content/uploads/2026/03/catalog2007.pdf>

2. Vassar College, Physics. Guest lecture: Acoustics. Date not recorded in this reference.

3. DeGrandis, Jim. "Sound Diffusion Explained." Acoustics First educational demonstration/video, cited by DeGrandis's 2015 ASA/POMA work as a 2011 demonstration.

The Ping-Pong-ball demonstration is the conceptual precursor to the later particle/ray-trace diffusion simulations. It is classified as educational demonstration/visualization, not as a print article.

Legacy educational-video URL: <http://acousticsfirst.com/educational-videos-acoustic-sound-diffusion.htm>

2015 POMA paper: <https://doi.org/10.1121/2.0000091>

4. DeGrandis, Jim. "Vibration Isolation Demonstration: Controlling Mechanical Sound Transmission." Acoustics First educational video/demonstration; public post 1 February 2013.

The fourth video in the educational series uses a tabletop demonstration using a vibrating device, a surface-mounted piezo transducer, an analog meter, and isolation materials to make mechanical vibration transmission visible and understandable.

Source: <https://acousticsfirst.info/2013/02/01/acoustics-first-releases-video-on-vibration-isolation/>

5. DeGrandis, Jim. "Binaural Bob Meets the ArtDiffusor Model D - Audio Demo" (public post: "Want to Hear Acoustic Diffusion? - Audio Demo"). Acoustics First educational listening demonstration, 9 June 2015.

The Binaural Bob demonstration series documents a custom binaural head and a comparison of an untreated room, nine Model D diffusers, and twenty-seven Model D diffusers using balloon pops, bang-snaps, and a book slam, with SPL and RT context.

Source: <https://acousticsfirst.info/2015/06/09/want-to-hear-acoustic-diffusion-audio-demo/>

2025 retrospective: <https://acousticsfirst.info/2025/02/27/throwback-thursday-diffusion-and-binaural-bob-from-10-years-ago/>

6. Brown, Brenda. "Videos Showing How Sound Behaves as it Hits Different Types of Surfaces." ProSoundTraining / SynAudCon, 30 November 2016.

ProSoundTraining / SynAudCon article crediting Acoustics First with computer simulations visualizing how sound behaves at different surfaces.

Article: <https://www.prosoundtraining.com/2016/11/30/how-sound-behaves/>

7. DeGrandis, Jim. "Binaural Bob Returns!" Acoustics First educational listening demonstration, 5 April 2018.

Follow-up Binaural Bob experiment in a larger 10 ft × 9 ft × 8 ft room with a wider variety of sounds and treatment options. Presented as a real-world listening comparison rather than a controlled laboratory test.

Source: <https://acousticsfirst.info/2018/04/05/binaural-bob-returns/>

8. ASA / AIA Continuing Education. Authorized presenter for the ASA TCAA-developed AIA/CES HSW "Architectural Acoustics" continuing-education program.

Acoustics First AIA/continuing-education archive: <https://acousticsfirst.info/category/company-information/>

9. Brown, Brenda. "Listening Opportunity to Compare No Treatment, Absorption and Diffusers." ProSoundTraining / SynAudCon Library, 9 April 2018. Submitted by Jim DeGrandis.

Listening exercise comparing four room-treatment configurations: bare room, full diffusion, mixed absorption/diffusion, and full absorption.

Article: <https://www.prosoundtraining.com/2018/04/09/listening-opportunity-to-compare-no-treatment-absorption-and-diffusers/>

10. University of Miami, Frost School of Music. Guest lectures by Jim DeGrandis, March 2019. Acoustics First post dated 29 April 2019.

Frost School students in Computational Psycho-acoustics received a lecture from Jim DeGrandis covering engineering, human perception of ultrasonic frequencies, audible effects of ultrasonic modulation, and a parametric-speaker demonstration. He also spoke at the student forum about misconceptions of what it means to work "in the industry" and repeated the parametric-speaker demonstration for the wider audience.

Source: <https://acousticsfirst.info/2019/04/29/university-of-miami-frost-school-of-music/>

6. Standards, measurement & simulation research

1. ASTM International Committee E33 working-group service: member, E33.05P Research Diffusion/Diffraction; member, E33.01C Diffusion Standard Group.

TCAA Kansas City minutes: https://tcaaasa.org/meet/TCAA_Kansas_City_Minutes_v1.pdf

2. 2017 audioXpress publication profile and article context.

The 2017 diffusion article/profile connects DeGrandis with ASTM activity and work toward improved diffusion measurement/data standards.

Article mirror: <https://acousticsfirst.info/wp-content/uploads/2017/08/ap-degrandis.pdf>

3. ASA 175th Meeting, 2018 - Ronald Sauro, "Diffusion: How New Research and Data Formats Can Be of Use in Simulations."

The ASA abstract states the work includes research by Sauro and extensions by Jim DeGrandis, including graphs extending use of phase data toward psychoacoustic interpretation and simulation.

ASA program: <https://acousticalsociety.org/wp-content/uploads/2018/04/mondaytofriday.pdf>

4. DeGrandis/Azad/Sauro, 2018 - "Using Laboratory Measurement Data to Improve Acoustic Simulations and Evaluate Performance."

Joint research linking laboratory measurement data to acoustic simulation and performance evaluation.

DOI: <https://doi.org/10.1121/1.5068008>

5. DeGrandis, 2020 - "A New Understanding of Diffusion."

The article identifies ASTM International diffusion/diffraction research activity and discusses hemispheric impulse-response measurement, phase, directivity, and richer multidimensional data for simulation use.

Authorized reprint:

https://www.enjoythemusic.com/magazine/viewpoint/0420/Understanding_Diffusion_Acoustics_First_Corporation.htm

6. DeGrandis, 2020 - "Acoustic Praxis: The Elephant in the Lab."

The author biography states that DeGrandis works with ASTM International on researching new acoustic testing methods. The article itself examines repeatability, uncertainty, and whether lab data are sufficiently rich for modern modelling/simulation.

audioXpress article: <https://audioxpress.com/article/acoustic-praxis-the-elephant-in-the-lab>

7. Sauro, Ronald. "Old Problems/New Solutions: Architectural Acoustics in Flux." NWAA Labs / AES PNW presentation materials.

Acknowledgements specifically credit Jim DeGrandis's animations as exceptional tools for explaining the system in simulations and credit his help in solidifying data-distribution formats for work associated with a potential ASTM standard.

Presentation PDF: https://www.aes-media.org/sections/pnw/ppt/other/old_problems_new_solutions_architectural_acoustics_in_flux.pdf

8. L'Italien, Zachery, and Henry Ashburn. "Alternative Methods for Cost Effective Diffusion." Michigan Technological University / USITT Sound Commission archive.

The technical paper cites DeGrandis's 2015 POMA paper and labels simulation imagery "Simulation by J. DeGrandis / Acoustics First Corporation" and "Video Courtesy of James DeGrandis."

Paper PDF: https://www.usitt-sound.org/wp-content/uploads/2020/09/Alternative_Methods_Cost_Effective_Diffusion.pdf

7. JASA acoustical-patent review service

The Journal of the Acoustical Society of America lists James DeGrandis, Acoustics First Corp., among the reviewer rosters for "Reviews of Acoustical Patents" in the following indexed issues.

1. Sean A. Fulop, "Reviews of Acoustical Patents," JASA 148, 1130-1135 (2020). DOI: 10.1121/10.0001807.

JASA record: <https://pubs.aip.org/asa/jasa/article/148/3/1130/913190/REVIEWS-OF-ACOUSTICAL-PATENTS>

2. Sean A. Fulop, "Reviews of Acoustical Patents," JASA 149, 847-852 (2021). DOI: 10.1121/10.0003429.

JASA record: <https://pubs.aip.org/asa/jasa/article/149/2/847/600936/REVIEWS-OF-ACOUSTICAL-PATENTS>

3. Sean A. Fulop, "Reviews of Acoustical Patents," JASA 149, 2937-2942 (2021). DOI: 10.1121/10.0004815.

JASA record: <https://pubs.aip.org/asa/jasa/article/149/5/2937/607495/Reviews-of-acoustical-patents>

4. Sean A. Fulop, "Reviews of Acoustical Patents," JASA 150, 19-24 (2021). DOI: 10.1121/10.0005488.

JASA record: <https://pubs.aip.org/asa/jasa/article/150/1/19/606497/REVIEWS-OF-ACOUSTICAL-PATENTS>

5. Sean A. Fulop, "Reviews of Acoustical Patents," JASA 150, 657-662 (2021). DOI: 10.1121/10.0005726.

JASA record: <https://pubs.aip.org/asa/jasa/article/150/2/657/615554/REVIEWS-OF-ACOUSTICAL-PATENTS>

6. Sean A. Fulop, "Reviews of Acoustical Patents," JASA 150, 1702-1706 (2021). DOI: 10.1121/10.0006096.

JASA record: <https://pubs.aip.org/asa/jasa/article/150/3/1702/904726/REVIEWS-OF-ACOUSTICAL-PATENTS>

7. Sean A. Fulop, "Reviews of Acoustical Patents," JASA 151, 2809-2813 (2022). DOI: 10.1121/10.0010351.

JASA record: <https://pubs.aip.org/asa/jasa/article/151/5/2809/2838265/Reviews-of-Acoustical-Patents>

8. Sean A. Fulop, "Reviews of Acoustical Patents," JASA 152, 1247-1251 (2022). DOI: 10.1121/10.0013824.

JASA record: <https://pubs.aip.org/asa/jasa/article/152/3/1247/2838697/REVIEWS-OF-ACOUSTICAL-PATENTS>

9. Sean A. Fulop, "Reviews of Acoustical Patents," JASA 152, 3125-3129 (2022). DOI: 10.1121/10.0015363.

JASA record: <https://pubs.aip.org/asa/jasa/article/152/6/3125/2839488/REVIEWS-OF-ACOUSTICAL-PATENTS>

10. Sean A. Fulop, "Reviews of Acoustical Patents," JASA 154, 1347-1350 (2023). DOI: 10.1121/10.0020810.

JASA record: <https://pubs.aip.org/asa/jasa/article/154/3/1347/2909308/REVIEWS-OF-ACOUSTICAL-PATENTS>

8. Recognition, citations & external references

1. Serinus, Jason Victor. "NWAA Labs: Measurement Beyond The Atomic Level." Stereophile, 4 August 2022; see page 2 of the web article.

Ron Sauro specifically praises DeGrandis's diffusion research, discusses his simulation program, and references the DeGrandis/Azad/Sauro laboratory-measurement/simulation paper.

Article: <https://www.stereophile.com/content/nwaa-labs-measurement-beyond-atomic-level-page-2>

Article opener / author record: <https://stereophile.com/content/nwaa-labs-measurement-beyond-atomic-level>

2. Acoustics First. "U.S. Patent Office Grants Patent to Acoustics First." Press release reprinted by The Absolute Sound, 20 November 2015.

Industry/press recognition naming Jim DeGrandis as lead engineer on the Art Diffusor Model D and describing virtual design/visualization and mathematical development.

The Absolute Sound: <https://www.theabsolutesound.com/articles/us-patent-office-grants-patent-to-acoustics-first/>

3. re:3D. "Gigabot Shapes Sound at Acoustics First." 8 September 2015.

Manufacturing/innovation feature quoting Jim and covering computer modelling, geometry optimization, rapid prototyping, and use of large-format 3D printing in acoustic-product development.

Article: <https://re3d.org/gigabot-shapes-sound-at-acoustics-first/>

4. Sauro, Ronald. "Old Problems/New Solutions: Architectural Acoustics in Flux." NWAA Labs / AES PNW presentation materials.

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Scope note

This August 2026 reference covers the publication, patent, ASA, standards, education, demonstration, professional-review, recognition, and citation material assembled in the source dossier. Books, DSP/plugin development, software/tool development, and additional older print-only material are not included in this edition.