

178th ASA Meeting
San Diego, CA
Dec 2-6, 2019

**P&P Technical
Committee Meeting**

Dec 3, 2019

Chair: Frederick J. Gallun

Oregon Health & Science University

gallunf@ohsu.edu



Agenda

- P&P Members Serving the Society
- Standards Update
- JASA Update
- Photography Policy
- Task Forces/Strategic Plan
- Upcoming Meetings
- Who Will Be the Next Chair of PPTC?

Technical Committee Members:

Term 2017 - 2020

Joshua Bernstein
Emily Buss
Hari Bharadwaj
Monita Chatterjee
Ross Maddox
Christopher Shera
Christian Stilp

Term 2018 - 2021

Michael Akeroyd
Anna Diedesch
Richard Freyman
Antje Ihlefeld
Alan Kan
Elin Roverud

Term 2019 – 2022

Douglas Brungart
David Eddins
Ruth Litovsky
Virginia Richards
G. Christopher Stecker
Kelly Whiteford

Term 2020 – 2023

Magdalena Wojtczak
Pavel Zahorik
Yi Shen

Erol Ozmeral
Jungmee Lee
Deniz Baskent

P&P Members Serving ASA

Diane Kewley-Port: President-Elect

Peggy Nelson: Vice-President; Women in Acoustics; Meetings

Brian C.J. Moore: Executive Council

Elizabeth Strickland: Membership (Chair)

Judy Dubno: Investments; Acoustical Foundation; Rules and Governance

William Hartmann: Rules and Governance (Chair); Investments; Public Policy

Adam Svec: Education in Acoustics

Jennifer Lentz: Archives and

History

Anna Diedesch: Women in Acoustics

Elin Roverud: Education in Acoustics; Women in Acoustics

Adrian KC Lee: Education in Acoustics; Committee on International Liason

G. Christopher Stecker: ASA Books

Barbara Shinn-Cunningham: Finance

Pavel Zahorik: Meetings

William Yost: Public Policy

Karen Helfer: Prizes and Special Fellowships

Ex officio:

Lori Leibold, member of Membership Committee

Andrew J. Oxenham, member of the Medals and Awards Committee

Daniel Guest, member of Student Council

Skyler G. Jennings, member of ASACOS

*Please email with
any corrections or
additions*

Associate Editors

Journal of the Acoustical Society of America

Physiological Acoustics

Hari M. Bharadwaj

Philip X. Joris

Adrian K. C. Lee (Coordinating Editor)

Brenda L. Lonsbury-Martin

Christopher A. Shera,

G. Christopher Stecker

Sarah Verhulst

Psychological Acoustics

Joshua G. W. Bernstein

Leslie R. Bernstein

Jonas Braasch

Mathias Dietz

Matthew J. Goupell

Karen S. Helfer

Jennifer J. Lentz

Virginia M. Richards

JASA Express Letters

Physiological Acoustics

Christopher Bergevin

Brenda L. Lonsbury-Martin

Psychological Acoustics

Monita Chatterjee

Quan-Jie Fu

Proceedings of Meetings on Acoustics

Psychological and

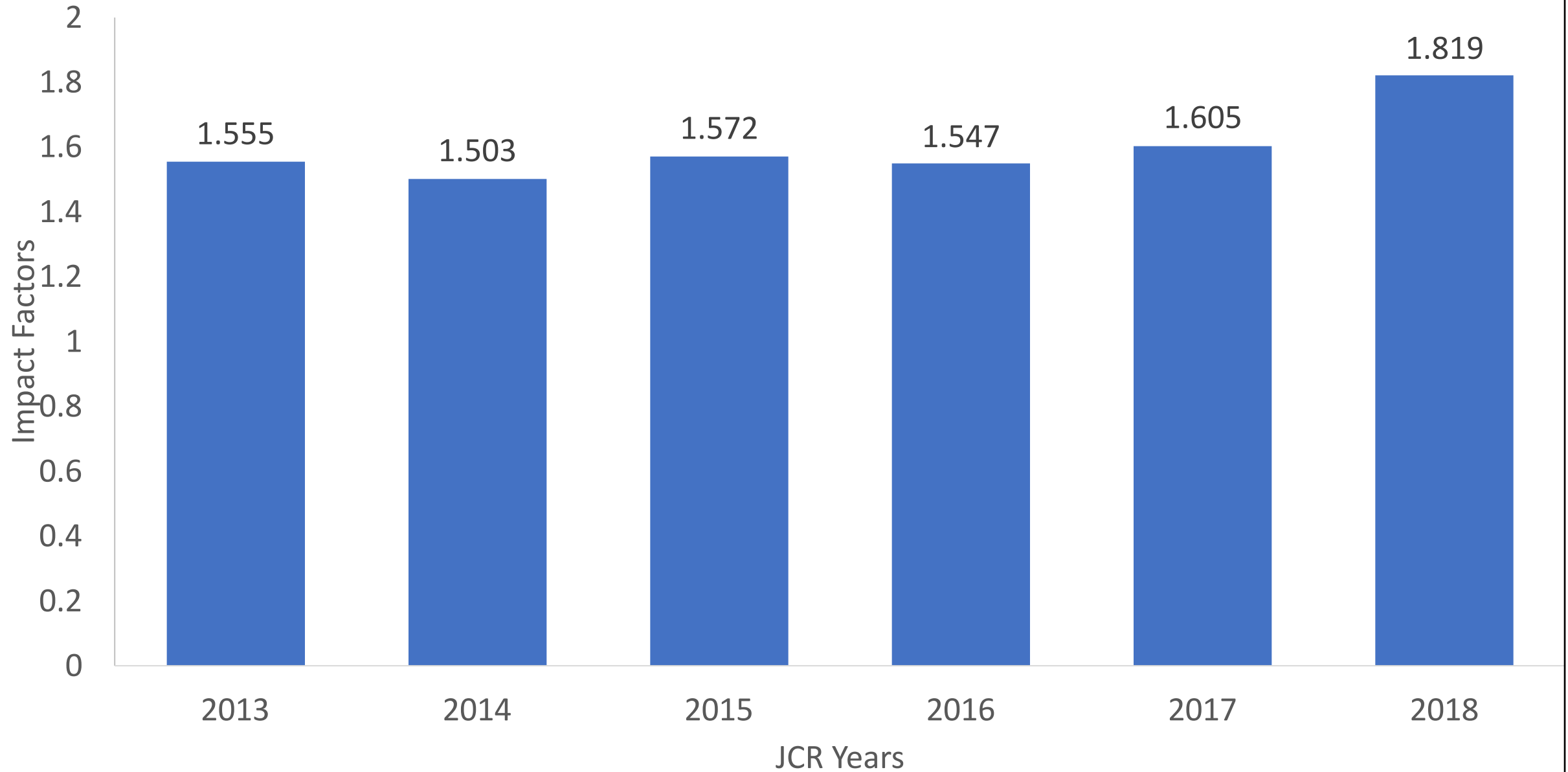
Physiological Acoustics

Harisadhan Patra

ASA Standards

- **ASA Standards moves to a “pay for service” business model 1 January 2020**
 - New pricing, topic bundles, quantity discounts, elimination of free standards, renegotiation of all site licenses and contracts with resellers

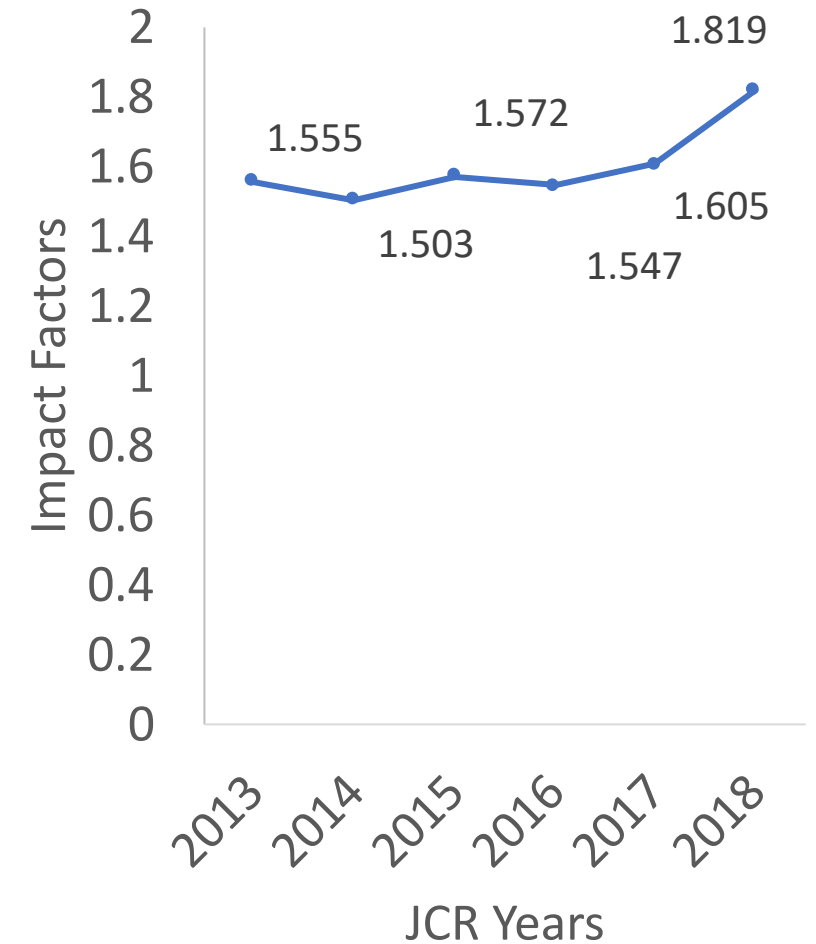
JASA Impact Factor



Impact Factor

	JASA	P&P
2015	1.57	2.16
2016	1.55	1.73
2017	1.61	1.58
2018	1.82	1.81


JASA Impact Factor



• ARCH AC	2015 - 1.66 (51)	2016 - 1.51 (49)	2017 - 1.23 (52)	2018 - 1.44 (46)
• ANIM BIO	2015 - 1.85 (51)	2016 - 1.65 (82)	2017 - 1.68 (112)	2018 - 1.27 (113)
• AC OCEAN	2015 - 0.88 (9)	2016 - 1.50 (8)	2017 - 1.68 (22)	2018 - 1.0 (27)
• BIOMED	2015 - 2.1 (84)	2016 - 1.86 (59)	2017 - 1.75 (63)	2018 - 1.88 (66)
• ENG'G	2015 - 1.52 (42)	2016 - 0.70 (40)	2017 - 1.29 (55)	2018 - 1.70 (73)
• MUSIC	2015 - 1.50 (40)	2016 - 1.00 (37)	2017 - 0.79 (38)	2018 - 1.2 (46)
• NOISE	2015 - 1.76 (51)	2016 - 1.44 (50)	2017 - 1.95 (41)	2018 - 1.85 (39)
• PHYS	2015 - 1.68 (208)	2016 - 1.95 (118)	2017 - 1.69 (159)	2018 - 1.80 (162)
• P&P	2015 - 2.16 (206)	2016 - 1.73 (199)	2017 - 1.58 (205)	2018 - 1.81 (214)
• SIG PROC	2015 - 1.94 (88)	2016 - 1.88 (86)	2017 - 1.91 (88)	2018 - 2.16 (106)
• SPEECH	2015 - 1.66 (203)	2016 - 1.39 (185)	2017 - 1.69 (179)	2018 - 1.93 (174)
• STRUCT	2015 - 1.70 (57)	2016 - 2.27 (59)	2017 - 1.49 (71)	2018 - 1.71 (78)
• UW AC	2015 - 1.14 (120)	2016 - 1.35 (98)	2017 - 1.44 (95)	2018 - 1.52 (87)

- Will be a new monthly feature, and extend over the next decade (until 2029)
 - Then will compile for a printed collection in 2029
- Is a 1-2 page description of a “classic” (seminal) article in the areas of our technical committees up to 2000 (but exceptions can be made if newer articles have dramatically changed a field)
- We have at least a couple of classic paper recommendations from each TC. We still would like a full list of 5-10 classic papers from all TCs, so that we have a fair representation
- We are at the starting point – should have first articles coming out soon.

Reflections



The JASA Reflections series takes a look back on JASA articles that have had a significant impact on the science of acoustics and the world. This inaugural REFLECTIONS looks at Dennis H. Klatt's work on the computer synthesis of high quality speech.

Seminal Article That Helped Give Stephen Hawking a Voice

ARTICLE OVERVIEW
Klatt (1980) described a computer synthesizer that was an extraordinary step forward in generating high-quality human speech by machine. It implemented newly developed digital signal processing techniques to produce the resonances (formants) of the vocal tract differentiating vowel sounds. Significantly there were two separate algorithms for the synthesis that were merged: The Cascade branch used a smoothed harmonic source for voiced pitch in vowels while the Parallel branch used a noise source and filters for the specific frequency bands in consonants. The two branches synthesized more natural sounding speech and with later enhancements allowed for development of voices for male and female speakers (see D.H. Klatt & L.C. Klatt (1990). J. Acoust. Soc. Am. 87, 820; <https://doi.org/10.1121/1.398894>)

IMPACT OF THE ARTICLE
Professor Klatt made several influential contributions to speech synthesis. His formant synthesizer software was immediately made available in Fortran code published in this 1980 JASA article. Scientists continue to use it today to study all aspects of speech, including synthesized speech sounds from infants to elderly talkers and sounds of world languages. Because of his interest in helping people with disabilities, he developed a text-to-speech (TTS) system (D.H. Klatt, (1987). J. Acoust. Soc. Am. 82 737; <https://doi.org/10.1121/1.395275>). His Klattalk TTS system became a commercial product in DECTalk (Digital Equipment Corp., 1984). It was used widely to read aloud computer text by people with low vision. Well known was one voice, Perfect Paul, that Prof. Stephen Hawking used throughout his life. Perfect Paul was modeled on Klatt's own speech https://asa.scitation.org/doi/suppl/10.1121/1.395275/suppl_file/35a.m4a.

CURRENT STATUS
Several software implementations of Klatt's synthesizers continue to be freely available, including the KlattGrid component of the ubiquitous Praat system. While most newer text-to-speech systems, including those in augmented and alternative communication (AAC) devices rely on newer data-driven synthesis methods, formant synthesis similar to Klatt's is still used in small footprint TTS packages such as eSpeak. Whether or not any current devices still use DECTalk-derived methods, its role in AAC was seminal, showing what could be done the emerging technology and underlining the importance of spoken word in assistive communication.

Article: Software for a cascade/parallel formant synthesizer
Author: Dennis H. Klatt
Original Publication Date: March 1, 1980 (JASA 67, 171)
<https://doi.org/10.1121/1.398894>

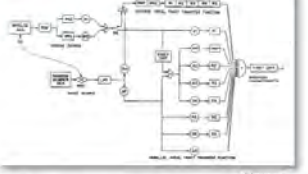




Figure 6



By Diana Kinney-Ford, Torrance, January 4, 2012



JASA-EL will become a separate Open Access journal in 2021

- price will go up to \$900 from \$500
- extra page
- 2 extra figures

JASA Calendar of covers

Photography policy

Current policy is “no photography without permission of ASA”
What should be our new policy?

TC input on task forces: Champion meetings are open to all

- Task Force A: Emerging scientific areas
- Task Force B: Connection with industry and practitioners
- Task Force C: communication
- Task Force D: engagement between meetings

Study of Representation of Academics and Practitioners as Fellows

Diane Kewley-Port, President-elect, retired professor and small business owner

Tony Hoover, Membership Committee (for AA) and consultant

- A recent Task Force B study examined the relative under-representation of Practitioners compared to Academics in Fellowship.
- Contributions to acoustics considered for Fellowship are broad, including notable projects and products, publications, presentations, teaching and mentoring, and service to ASA and related societies.
- Information, instructions, and guidelines are being reviewed to enhance and clarify a more equitable consideration of Practitioners during review for Fellowship.

Upcoming Meetings

- There will be an ASA School at Chicago May 2020 ASA Meeting (link on main ASA page), for students and people within 3 years of their terminal degree
- Cancun ASA Fall 2020 – how many are going to attend?
- Spring 2021 still undecided – but not Portland, likely Seattle
- Fall 2021 Sydney: up to 100 \$1000 stipends for students, based on unused TC funds

ASA International Year of Sound 2020 PLANS

- Wikipedia Editing Workshop
 - the Acoustical Society of America is supporting #Wiki4YearOfSound2020, a campaign by NIOSH and other partners to improve Wikipedia articles related to sound.
 - Workshop attendees will learn the basics of Wikipedia editing and make substantive changes to Wikipedia articles within their area of expertise.
- The Workshop takes place during the 179th ASA Meeting in Chicago, May 2020



Who will be the next Chair of PP?

William A. Yost	1990–93
Ervin R. Hafter	1993–96
Donna L. Neff	1996–99
Neal F. Viemeister	1999–02
Virginia M. Richards	2002–05
Elizabeth A. Strickland	2005–08
Andrew J. Oxenham	2008–11
Michael G. Heinz	2011–14
Magdalena Wojtczak	2014–17
Frederick J. Gallun	2017–2020
??	2020-

