

Gerald R. Popelka, Ph.D.

February 1, 2018

1. **Personal Information:**
 - a. Gender: Male
 - b. Birth date: October 16, 1943
 - c. Birth place: Cleveland, Ohio USA

2. **Citizenship:**

United States of America
Standard visa

3. **Address:**

Department of Neurosurgery
300 Pasteur Drive, Edwards Bldg., Rm. R295
Stanford University
Stanford, CA 94305-5327 USA
Phone: 650-736-2667
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4. **Present Position:**

2004- Adjunct Professor of Neurosurgery (2017-)
Consulting Professor of Otolaryngology (2004-2017)
Chief of Audiology (2005-2015)
Co-Founder and Co-Director, Stanford Balance Center (2009-2017)
School of Medicine
Stanford University

5. **Education:**
 - a. Undergraduate
1968 B.A. Experimental Psychology Kent State University
Kent, Ohio

 - b. Graduate
1970 M.A. Audiology Kent State University
Kent, Ohio
1974 Ph.D. Communication Sciences University of Wisconsin,
Madison, Wisconsin

 - c. Postgraduate
1976-78 Postdoctoral Fellowship University of California-Los Angeles
Otolaryngology
Los Angeles, California

6. **Previous Positions:**

1974-1976 Assistant Professor of Otolaryngology
Department of Otolaryngology
New York University School of Medicine
New York, New York

1975-1976 Assistant Professor of Communication Sciences
City University of New York
New York, New York

1976-1978 Post Doctoral Fellow
Department of Otolaryngology
UCLA School of Medicine
Los Angeles, California

1977-1979	Assistant Professor of Audiology Department of Special Education California State University Los Angeles, California
1980-1985	Associate Professor of Audiology Speech & Hearing Department College of Arts & Sciences Washington University St. Louis, Missouri
1980-1996	Head of Audiology Central Institute for the Deaf St. Louis, Missouri
1985-2000	Professor of Audiology Speech & Hearing Department College of Arts & Sciences Washington University St. Louis, Missouri
1989-1996	Director of Professional Education Central Institute for the Deaf St. Louis, Missouri
1996-2000	Professor of Communication Sciences Graduate Faculty, Rehabilitation Sciences School of Medicine Washington University St. Louis, Missouri
2000-2004	Adjunct Professor of Otolaryngology Department of Otolaryngology School of Medicine Washington University St. Louis, Missouri
2000-2004	Vice President Research and Development Director of Scientific Research Everest Biomedical Instruments St. Louis, Missouri

7. **University Appointments and Committees:**

a. Washington University College of Arts & Sciences

1983-1989	Speech & Hearing Library Committee (Chair)
1985-1999	Washington University Graduate Council Representative
1988-1996	Washington University Animal Care and Use Committee
1989-1996	Speech & Hearing Admissions Committee (Chair)
1989-1996	Speech & Hearing Faculty Promotions Committee (Chair)
1989-1996	Speech & Hearing Curriculum Committee
1989-1996	Speech & Hearing Recruitment Committee (Chair)
1995-1997	Washington University Graduate Council Library Committee (Chair)
1997-1999	Washington University Graduate Council Executive Committee
1998-1999	Washington University Graduate Council Teaching Assistant Committee (Chair) (Developed Summer Workshop)

b. Washington University School of Medicine

1996-2000	Rehabilitation Sciences World Wide Web Committee
1996-1999	Rehabilitation Sciences Administration Council
1996-1999	Rehabilitation Sciences Graduate Faculty Committee (Chair)
1996-1997	Rehabilitation Sciences Graduate Assistantship Committee
1996-1997	Rehabilitation Sciences Resource Committee (Chair)
1997-1999	Rehabilitation Sciences Promotion and Tenure Committee
1997-1999	Rehabilitation Sciences Resource Committee
1996-1999	Rehabilitation Sciences Graduate Curriculum Committee (Chair)
1996-1999	Rehabilitation Sciences Graduate Admissions Committee (Chair)

c. Stanford University School of Medicine

2004-2015	Chief of Audiology
2007-	Affiliate, Stanford Bio-X
2008-2010	Member of Executive Board Johnson Center for Pregnancy and Newborn Services
2009-	Co-Director and Co-Founder, Stanford Balance Center
2012-	Member of Advisory Council, Stanford Center on Longevity
2013-	Pre-Major Advisor
2015-	Member, Stanford Center for Population Health Sciences
2015-	Faculty Affiliate, Stanford Neurosciences Institute

8. Certification and Licenses:

1970-	Certificate of Clinical Competence, Audiology (CCC-A), American Speech-Language-Hearing Association
1980-2004	Licensed Clinical Audiologist, State of Missouri
2005-	Licensed Clinical Audiologist, State of California

9. Military Service:

1964-1970	Ohio National Guard, Honorably Discharged
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10. Honors and Awards:

1985	Inventor on the patent "Hearing aids, signal supplying apparatus, systems for compensating hearing deficiencies, and methods" #4,548,082, October 22, 1985, Co-inventors: Engebretson, A., Morley, R., and Popelka , G. Assigned originally to Washington University and sold in September, 1996 to a consortium of hearing aid manufacturers for \$9,000,000. This patent is for the first all digital hearing aid and is the basis for all programmable and computer-based hearing aids.
1986	Awarded Certificate of Appreciation from the American Speech-Language-Hearing Association
1987	Elected Fellow of the American Speech-Language-Hearing Association
1992	Awarded the Knud Terkildsen Research Fellowship
1994	Elected to Executive Council, Association for Research in Otolaryngology
1994	Elected Editor, Association for Research in Otolaryngology
1997	Awarded a Special Citation from the Association for Research in Otolaryngology

- 1997 Awarded Silver Certificate from the Acoustical Society of America
- 1997 Elected Editor, Association for Research in Otolaryngology
- 2000 Awarded Special Citation for Editor from Association for Research in Otolaryngology
- 2007 Awarded Certificate of Appreciation from the Association for Research in Otolaryngology for founding the *Journal of the Association for Research in Otolaryngology*
- 2009 Inventor on the patent "Real-Time Magnetic Resonance Imaging and Peripheral Arterial Tone in Sleep Apnea Diagnosis", #2009/0216108, August 27, 2009, Pending, Co-inventors: Barrera JE, Holbrook, AB, Santos JM and **Popelka**, GR. Assigned to Stanford University
- 2015 Awarded Life Member, American Speech-Language-Hearing Association
- 2016 Nominated for the 2016 Editors' Award by the Editorial Board of *Ear and Hearing*, the journal with the highest impact factor in otolaryngology, for the article, Margolis, RH, Wilson, RH, Popelka, GR, Eikelboom, RH, Swanepoel, D and Saly, GL: Distribution Characteristics of Air-Bone Gaps: Evidence of Bias in Manual Audiometry; *Ear & Hearing*, 37(2):177-188, 2016
- 2017 Inventor on the patent "Device and Method for Hearing Threshold Adapted Acoustic Stimulation", PCT/US2017/043148 and PCT/US2017/043151, July 20, 2017, Filed, Co-inventors: Tass, P, and **Popelka**, GR. Assigned to Stanford University

11. Editorial Responsibilities:

- 1986-1996 Member of Editorial Board: *The Laryngoscope*
- 1988-2000 Editor: Association for Research in Otolaryngology
- 1991-2016 Member of Editorial Board: *Journal of Communication Disorders*
- 1999-2006 Co-Chair of Publication Committee: *Journal of the Association for Research in Otolaryngology*
- Editorial Consultant: (Peer reviewer of research papers)
- 1980-1990 *Journal of Speech and Hearing Disorders*
- 1980-2002 *Journal of Speech and Hearing Research*
- 1983- *Annals of Otology, Rhinology, & Laryngology*
- 1983- *Acta Oto-Laryngologica*
- 1986- *Laryngoscope*
- 1988- *Hearing Research*
- 1989-1990 *Journal of the Academy of Rehabilitative Audiology*
- 1990-1996 *Journal of Clinical Audiology*
- 1980- *Journal of the Acoustical Society of America*
- 1990- *Journal of Communication Disorders*
- 1993- *Ear & Hearing*
- 1999- *New England Journal of Medicine*
- 2004- *Journal of Otology & Neurotology*
- 2005- *Audiology & Neurotology*

2006	<i>National Institute for Occupational Safety and Health</i>
2009-	<i>International Journal of Audiology</i>
2010-	<i>Trends in Amplification</i>
2010-	<i>Magnetic Resonance in Medicine</i>
2013-	<i>IEEE Transactions on Biomedical Engineering</i>
2014-	<i>BioMed Research International</i>
2017-	<i>PLOS ONE</i>
2017-	<i>Neuroscience Letters</i>
1983-1990	Member of Working Group: Audiometric Evaluation of Electroacoustic Characteristics, American Speech-Language-Hearing Association
1983-1994	Member of Working Group S.3: Aural Acoustic Immittance, American National Standards Institute
1997-2000	Reviewer, Grant proposals, Paralyzed Veteran's of America
2000	Reviewer, Grant proposals, Association of Teachers of Preventative Medicine
1998	Reviewer, Grant proposals, James S. McDonnell Foundation
1999-2002	Reviewer, Grant proposals, Tinnitus Research Consortium
2007	Reviewer, Grant proposals, Ministry of Research and Innovation, Ontario, Canada
2009	Reviewer, Submitted manuscripts, Middle Ear Mechanics and Research in Otolaryngology Bi-annual meeting, Stanford University, Stanford CA
2010	Reviewer, Grant Proposals. Swiss National Science Foundation, Bern, Switzerland
2011-	Chair, Task Force for Standardized Reporting of Audiologic Results, American Academy of Audiology

12. Professional Societies and Organizations:

1968-	Member, Acoustical Society of America
1968-	Member, American Speech-Language-Hearing Association
1978-	Member, Association for Research in Otolaryngology
1997-2000	Member, Society for Neuroscience
1999-	Member, American Auditory Society
2004-	Fellow, American Academy of Audiology

13. Major Invited Professorships and Lectureships:

1. **Popelka, G:** Computer assisted hearing aid assessment for the clinician. 1982; American Academy of Otolaryngology, New Orleans, Louisiana
2. **Popelka, G:** Microprocessor assisted hearing aid assessment. 1984; Association for Research in Otolaryngology, St. Petersburg Beach, Florida

3. **Popelka, G:** Cochlear implants in children. 1985; UCLA School of Medicine, Los Angeles, California
4. **Popelka, G:** New developments in hearing aid technology. 1986; Otology Today, Riva Del Garda, Italy
5. **Popelka, G:** New developments in hearing aid technology. 1986; Fourth Rion International Seminar, Tokyo, Japan
6. **Popelka, G:** Computers in the rehabilitation of hearing. 1986; Sackler Faculty of Medicine Lecture, Tel Aviv University, Tel Aviv, Israel
7. **Popelka, G:** The CID digital hearing aid. 1986; Digital Signal Processing and Real Ear Measurement, University of Wisconsin, Madison, Wisconsin
8. **Popelka, G:** Cochlear implants in children. 1986; Sackler Faculty of Medicine Lecture, Tel Aviv University, Tel Aviv, Israel
9. **Popelka, G:** Computer technology for sensorineural hearing impairment. 1986; New Approaches to Sensorineural Hearing Impairment, Deafness Research Foundation, New York, New York
10. **Popelka, G:** Computer technology and hearing aids. 1986; New Perspectives on Amplification, Stanford University, Palo Alto, California
11. **Popelka, G:** Computer assisted hearing aid fitting. 1986; University of Wisconsin, Madison, Wisconsin
12. **Popelka, G:** Effects of certain auditory factors on individual susceptibility to noise. 1990; Consensus Development Conference on Noise and Hearing Loss, National Institutes of Health, Washington, D.C.
13. **Popelka, G:** Cochlear implants in children. 1992; Knud Terkildsen Lecture, University of Copenhagen, Copenhagen, Denmark
14. **Popelka, GR, Wightman, F, and Neely, S:** Information sharing via the internet. 1995; Geraldine Fox Lecture, Association for Research in Otolaryngology, St. Petersburg Beach, Florida
15. **Popelka, GR, Wightman, F, Neely, S, Johnson, D, and Miller, JD:** Science, scholarship, and communication via the internet. 1996; Geraldine Fox Lecture, Association for Research in Otolaryngology, St. Petersburg Beach, Florida
16. **Popelka, G:** Computers and hearing aids: A prediction of the future. 1998; Academy Award Session, American Academy of Audiology, Los Angeles, California
17. **Popelka, GR:** Current Issues in Universal Neonatal Hearing Screening, May 30, 2002; NHS2002: International Conference on Newborn Hearing Screening, Diagnosis and Intervention, Como, Italy (With Dauman, R, Hall, III, JW, Kileny, P, Norton, S, and Sininger, Y)
18. **Popelka, GR:** Brain Function Monitoring and Anesthesia: Current Status and Future Developments, Visiting Professor, September 17, 2002; Duke University, Durham, North Carolina
19. **Popelka, GR:** Issues Affecting Otoacoustic Emissions and Auditory Brainstem Methods in Neonatal Auditory Screening, Keynote Speaker, June 7, 2005; Neonatal Hearing Screening Symposium, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel

20. **Popelka**, GR: Auditory Brainstem Development in the Neonate, Keynote Speaker, June 10, 2005; Israeli Society of Otoneurology, Technion Israel Institute of Technology, Haifa, Israel
 21. **Popelka**, GR: Dynamics of Speech Structures; New Perspectives from Real-Time MRI Measures, May 8, 2006; Berkeley Ear Club, University of California, Berkeley, Berkeley California
 22. **Popelka**, GR: The Neonatal Ear Canal: Considerations for Neonatal Hearing Screening, May, 15, 2008; 8th International Otorhinolaryngology and Head Neck Surgery Congress, Ankara, Turkey
 23. **Popelka**, GR: Dynamics of Oral Structures: New Perspectives on Swallow and Speech, May, 15, 2008; 8th International Otorhinolaryngology and Head Neck Surgery Congress, Ankara, Turkey
 24. **Popelka**, GR: Dynamics of the Upper Airway: New Perspectives on Sleep Apnea from Real Time MRI Measures, May, 17, 2008; 8th International Otorhinolaryngology and Head Neck Surgery Congress, Ankara, Turkey
 25. **Popelka**, GR: Visiting Professor, History of Audiology, September 15, 2008, Lunds University, Lund, Sweden
 26. **Popelka**, GR: Keynote Speaker, Celebration of 10th Anniversary of Audiology Department, September 17, 2008, Lunds University, Lund, Sweden
 27. **Popelka**, GR: Visiting Professor, History of the Cochlear Implants in the United States, September 19, 2008, Lunds University, Lund, Sweden
 28. **Popelka**, GR: Hearing Loss and the Latest Advances in Hearing Aid Technology, October 8, 2012, Emeriti Council, Center for Longevity, Stanford University, Stanford, California
 29. **Popelka**, GR: Improving Communication for People with Hearing Loss, March, 14-15, 2017, Center for Longevity, Stanford University, Stanford, California
- 14. Board Memberships and Consulting Relationships:**
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| 1985-1992 | Consultant, The effects of noise exposure on the auditory system and how to prevent them, Union Pacific Railroad |
| 1992-1993 | Member, Medical Board, St. Louis Symphony Orchestra |
| 2001- | Member, Healthy Hearing Audiology Advisory Board, Audiology Online |
| 2003-2005 | Member, NHS2004 Early Hearing Detection and Intervention Focus Group, Milan Italy |
| 2005-2009 | Member, Data Safety Monitoring Board, National Institutes of Health, for monitoring clinical trials of a large multi-center pharmaceutical study concerning an ototoxic drug used for colorectal disease |
| 2006-2014 | Member, Scientific Advisory Board, Sonitus Medical, Inc, San Mateo, CA |
| 2010- | Member, Board of Trustees, Baker Institute for Children with Hearing Loss, Palo Alto, CA |

2016- Member, Scientific Advisory Board, Tusker Medical, Inc,
Menlo Park, CA

2017- Member, Scientific Advisory Board, SoundMed, LLC,
Shangai, China

15. Research Support:

a. Governmental

- 1976 **Popelka**, GR, Co-Principal Investigator with M. Miller
The Acoustic Stapedius Reflex in Neonates
The United States-Israel Bi-National Science Foundation
\$10,000
- 1980-1983 **Popelka**, GR, Program Project Laboratory Head
Ira Hirsh, Principal Investigator
The Auditory System and Its Disorders
National Institutes of Health
\$150,000
- 1983-1991 **Popelka**, GR, Co-Principal Investigator with A. Engebretson
and R. Morley
Development of a Digital Hearing Aid
Veteran's Administration V674P-857
\$1,941,528
- 1983-1991 **Popelka**, GR, Co-Principal Investigator with A. Engebretson
and R. Morley
Development of a Digital Hearing Aid
National Aeronautics and Space Administration
\$397,858
- 1997-1998 **Popelka**, GR, Co-Principal Investigator with E. Causevic
and R. Morley
Development of a Portable Auditory Diagnostic Device, Phase I
Small Business Innovation Research Grant
United States Air Force, FY7624-97-AO005
\$100,000
- 1998-2000 **Popelka**, GR, Co-Principal Investigator with E. Causevic
and R. Morley
Portable Auditory Diagnostic Device, Phase II
Small Business Innovation Research Grant
United States Air Force, FY7624-97-AO005
\$750,000
- 1999-2000 **Popelka**, GR, Principal Investigator
Handheld Neonatal Auditory Screening Device, Phase I
Small Business Technology Transfer Grant
National Institutes of Health, R41-DC03614-01A2
\$100,000
- 2001-2004 **Popelka**, GR, Principal Investigator
Handheld Neonatal Auditory Screening Device, Phase II
Small Business Technology Transfer Grant
National Institutes of Health, R41-DC03614-01A2
\$500,000

- 2004-2005 **Popelka**, GR, Principal Investigator
Neonate Hearing Simulator, Phase I
Small Business Innovation Research Grant
National Institutes of Health, R43-DC005115-01A1
\$100,000
- 2005-2006 **Popelka**, GR, Co-Principal Investigator with R. Delgado
Hearing Simulator, Phase I
Small Business Innovation Research Grant
National Institutes of Health, R43-DC008015-01A1
\$100,000
- 2006-2009 **Popelka**, GR, Co-Principal Investigator with R. Delgado
Hearing Simulator, Phase II
Small Business Innovation Research Grant
National Institutes of Health, R43-DC008015-01A2
\$750,000
- 2009-2014 Steele, CR, Principal Investigator, **Popelka**, GR, Investigator
Human Middle Ear Imaging, Physiology, and Biomechanics
NIDCD R01 Grant
National Institutes of Health, R01-DC005960-04A1
\$500,000
- 2009-2014 Heller, S, Principal Investigator, **Popelka**, GR, Core Director
Auditory Measures in Small Mammals
NIDCD Research Core Center P30
National Institutes of Health, P30-DC010363-01
\$508,469
- 2012-2015 Steele, CR, Principal Investigator, **Popelka**, GR, Investigator
Three-dimensional and multiscale organ of Corti biomechanics
NIDCD R01 Grant
National Institutes of Health, R01-DC007910
\$3,252,053
- 2015-2016 **Popelka**, GR, Principal Investigator, Tass, PA, Co-Investigator
Tinnitus Neuromodulation and 3D EEG Imaging
Jülich-Stanford Agreement
Jülich Research Institute, Germany
\$400,000

b. Non-governmental

- 1980-1996 **Popelka**, GR, Principal Investigator (Many small grants)
- 1987-1991 **Popelka**, GR, Co-Principal Investigator with A. Engebretson
and R. Morley
Development of a Digital Hearing Aid
3-M Corporation
\$1,100,000
- 1989 **Popelka**, GR, Principal Investigator
Tympanometry Development
Sertoma Foundation
\$5000

- 1990 **Popelka**, GR, Principal Investigator
Otoacoustic Emissions Development
Sertoma Foundation
\$5000
- 1992 **Popelka**, GR, Research Fellowship
Basic Attributes of Otoacoustic Emissions
Knud Terkildsen Research Fellowship Fund
\$62,800
- 1992 **Popelka**, GR, Principal Investigator
Otoacoustic Emissions for Food and Drug Administration Trials
Virtual Corporation
\$12,000
- 1993-1999 **Popelka**, GR, with R.K. Karzon, Principal Investigator
Otoacoustic Emissions: Screening in High-Risk Infants
American Hearing Research Foundation
\$10,000
- 1998-1999 **Popelka**, GR, Principal Investigator
Innovative Approaches to Otoacoustic Emission Measurements
for Neonatal Hearing Screening
National Organization for Hearing Research
\$10,000
- 2004-2006 **Popelka**, GR, Principal Investigator
Vice Provost Undergraduate Education
Stanford University
\$5,000
- 2016- **Popelka**, GR, Investigator, Tass, PA, Principal Co-Investigator
Tinnitus Neuromodulation and 3D EEG Imaging
Stanford University
Department of Neurosurgery
\$400,000

16. Clinical Titles and Responsibilities:

- 1980-1994 Head of Audiology, Central Institute for the Deaf
Directed and managed a comprehensive outpatient audiology
clinic that employed an average of seven audiologists who saw
approximately 4500 patients annually. Patients ranged in age from
neonate to elderly. All audiologic services were provided.
- 2004-2015 Chief of Audiology, Department of Otolaryngology
Stanford University School of Medicine
Created, directed and managed a comprehensive outpatient and
inpatient audiology clinic that employs an average of seven
audiologists who saw approximately 11,500 patients annually.
ranging in age from neonate to elderly. All audiologic and
vestibular services were provided.

2009-2017 Co-Founder and Co-Director
Stanford Balance Center
Stanford University School of Medicine
Co-Created, Co-Founded and Co-Directed with Dr. Helen-Bronte-Stewart, Professor of Neurology, a comprehensive multi-disciplinary balance center integrating Neurology, Otolaryngology, Audiology, Physical Therapy and related services for diagnosing and treating complex balance disorders.

17. Teaching Title and Responsibilities:

Professor (Courses taught since 1980)

a. Speech & Hearing Department, Washington University

1980-1996 Clinical Practicum I
1980-1996 Clinical Practicum II
1980-1996 Clinical Practicum III
1980-1987 Electroacoustics
1980-2002 Independent Studies, Masters Theses and Dissertation Research
1981-1996 Hearing Evaluation and Diagnosis I
1981-1996 Hearing Evaluation and Diagnosis II
1981-1996 Hearing Evaluation and Diagnosis III
1989-1995 Introduction to Audiology
1993-1995 Introduction to Speech & Hearing Sciences and Disorders
2000-2004 Individual lectures in Anatomy, Neuroscience, Physiology

b. School of Medicine, Washington University

1997-1999 Introduction to Computers and Technology
1997-1999 Evaluating Practice Through Research
1997-1999 Area Specialization Seminar (Research in Hearing Impairment)
1996-2004 Individual lectures in Anatomy, Neuroscience, Policy, Research and Assistive Technology

c. School of Engineering, Stanford University

2004 Seminar in Hearing Disorders
2004- Independent studies, digital signal processing, undergraduates
2004- Independent studies, digital signal processing, graduate students
2008 Dissertation advisor, Ryan Cassidy, PhD, Auditory signal processing to improve impaired listening experiences via efficient, loudness-based algorithms

d. School of Medicine, Stanford University

2004-2017 Residency Education
2004-2017 Clerkships for medical students
2011 Triologic Thesis advisor, Jose E. Barrera, MD, Sleep Magnetic Resonance Imaging: Dynamic Characteristics of the Airway During Sleep in Obstructive Sleep Apnea Syndrome
2013- Individual lectures in Department of Anatomy
2013- Pre-major undergraduate student advisor

18. Publications:

1. Adams, MR and **Popelka**, GR: The influence of "time-out" on stutterers and their dysfluency. Behavior Therapy 1971; 2(3): 334-339
2. **Popelka**, GR and Berger, KW: Gestures and visual speech reception. American Annals of the Deaf 1971; 116(4): 434-436

3. Berger, KW and **Popelka**, GR: Extra-facial gestures in relation to speechreading. *Journal of Communication Disorders* 1971; 3: 302-308
4. **Popelka**, GR, Karlovich, RS, and Wiley, TL: Acoustic reflex and critical bandwidth. *Journal of the Acoustical Society of America* 1974; 55(4): 883-885
5. Margolis, RH and **Popelka**, GR: Loudness and the acoustic reflex. *Journal of the Acoustical Society of America* 1975; 58(6): 1330-1332
6. Margolis, RH and **Popelka**, GR: Static and dynamic acoustic impedance measurement in infant ears. *Journal of Speech and Hearing Research* 1975; 18(3): 435-443
7. **Popelka**, GR, Margolis, RH, and Wiley, TL: The effect of activating signal bandwidth on acoustic reflex thresholds. *Journal of the Acoustical Society of America* 1976; 59(1): 153-159
8. Margolis, RH and **Popelka**, GR: Auditory filter characteristics inferred from simultaneous masking: Effects of procedural variables. *Journal of the Acoustical Society of America* 1977; 61: S28
9. Margolis, RH and **Popelka**, GR: Interactions among tympanometric variables. *Journal of Speech and Hearing Research* 1977; 20: 447-462
10. **Popelka**, GR and Dubno, JR: Comments on the acoustic reflex response for bone-conducted signals. *Acta-Otolaryngologica* 1978; 86: 64-70
11. Margolis, RH and **Popelka**, GR: Detection of tones in band-reject noise. *Journal of the Acoustical Society of America* 1978; 63: S54
12. Himelfarb, MZ, Shanon, E, **Popelka**, GR, and Margolis, RH: Acoustic reflex evaluation in neonates, in *Early Diagnosis of Hearing Loss*, S Gerber and G Mencher, Editors. 1978, Grune & Stratton: New York, New York. 109-127
13. Margolis, RH, **Popelka**, GR, and Smith, P: The significance of "The significant asymmetrical tympanogram": A reply to Pearlman and Graber. *Journal of Speech and Hearing Research* 1978; 21(3): 607-608
14. Margolis, R, Osguthorpe, J, and **Popelka**, GR: The effects of experimentally-produced middle ear lesions on tympanometry in cats. *Acta-Otolaryngologica* 1978; 86: 428-436
15. Silman, S, **Popelka**, GR, and Gelfand, SA: Effect of sensorineural hearing loss on acoustic stapedius reflex growth functions. *Journal of the Acoustical Society of America* 1978; 63 (4): S42
16. Silman, S, **Popelka**, GR, and Gelfand, SA: Effect of sensorineural hearing loss on acoustic stapedius reflex growth functions. *Journal of the Acoustical Society of America* 1978; 64(5): 1406-1411
17. Himelfarb, MZ, **Popelka**, GR, and Shanon, E: Tympanometry in normal neonates. *Journal of Speech and Hearing Research* 1979; 22(1): 179-191
18. Himelfarb, MZ, **Popelka**, GR, Weiser, A, and Shanon, E: The significance of acoustic admittance procedures in the audiologic evaluation of multiply-handicapped children. *British Journal of Audiology* 1981; 15: 21-24

19. **Popelka**, GR: Electric response audiometry at Central Institute for the Deaf. *Hearing Aid Journal* 1981; 34(8): 8-26
20. **Popelka**, GR: Pragmatic aspects of hearing assessment with acoustic reflex threshold measures, in *Hearing Assessment with the Acoustic Reflex*, GR **Popelka**, Editor. 1981, Grune & Stratton: New York, New York. 97-113
21. Margolis, RH, **Popelka**, GR, Handler, S, and Himelfarb, MZ: The effects of age on acoustic-reflex thresholds in normal-hearing subjects, in *Hearing Assessment with the Acoustic Reflex*, GR **Popelka**, Editor. 1981, Grune & Stratton: New York, New York. 85-95
22. **Popelka**, GR: Instrumentation and procedures for measuring acoustic reflex thresholds, in *Hearing Assessment with the Acoustic Reflex*, GR **Popelka**, Editor. 1981, Grune & Stratton: New York, New York. 47-58
23. **Popelka**, GR: The acoustic reflex in normal and pathologic ears, in *Hearing Assessment with the Acoustic Reflex*, GR **Popelka**, Editor. 1981, Grune & Stratton: New York, New York. 5-21
24. **Popelka**, GR: ed. *Hearing Assessment with the Acoustic Reflex*. 1981, Grune & Stratton: New York, New York. 168
25. Margolis, RH, *et al.*: The bivariate plotting procedure for hearing assessment with acoustic reflex threshold measures, in *Hearing Assessment with the Acoustic Reflex*, GR **Popelka**, Editor. 1981, Grune & Stratton: New York, New York. 59-84
26. **Popelka**, GR: First attempts at hearing assessment with acoustic reflex measures, in *Hearing Assessment with the Acoustic Reflex*, GR **Popelka**, Editor. 1981, Grune & Stratton: New York, New York. 23-45
27. Skinner, MW, Pascoe, DP, Miller, JD, and **Popelka**, GR: Measurements to determine optimal placement of speech energy within the listener's auditory area: A basis for selecting amplification characteristics, in *The Vanderbilt Report*, G. Studebaker and F. Bess, Editors. 1982, Monographs in Contemporary Audiology: Upper Darby, Pennsylvania. 161-168
28. **Popelka**, GR: Auditory Disorders by Susan Jerger and James Jerger. *Journal of the Acoustical Society of America* 1982; Volume 71 (4): 1053
29. **Popelka**, GR: PHASE IV: Program for hearing aid selection and evaluation. 1983; Central Institute for the Deaf Publications, St. Louis, Missouri
30. **Popelka**, GR: Basic acoustic immittance measures. *Audiology* 1983; 3(1): 1-16
31. **Popelka**, GR and Engebretson, AM: A computer-based audiologic system for hearing aid assessment. *Hearing Instruments* 1983; 34(7): 6-8
32. **Popelka**, GR: Acoustic immittance measures: Terminology and instrumentation. *Ear and Hearing* 1984; 5(5): 262-267
33. **Popelka**, GR and Gittelman, DA: Audiologic findings in a child with a single-channel cochlear implant. *Journal of Speech and Hearing Disorders* 1984; 49: 254-261
34. **Popelka**, GR: Improving the hearing of the elderly, in *Communications Technology and the Elderly*, R.E. Dunkle, M.R. Haug, and M. Rosenberg, Editors. 1984, Springer: New York, New York. 81-96

35. Davis, H, Hirsh, SK, **Popelka**, GR, and Formby, C: Frequency selectivity and thresholds of brief stimuli suitable for electric response audiometry. *Audiology* 1984; 23: 59-74
36. Newby, HA and **Popelka**, GR: *Audiology* fifth ed. 1985, Englewood Cliffs, New Jersey: Prentice-Hall. 472 pp
37. Engebretson, AM, Morley, RE, and **Popelka**, GR: Hearing aids, signal supplying apparatus, systems for compensating hearing deficiencies, and methods. *Journal of the Acoustical Society of America* 1986; 79: 1198
38. Skinner, MW, Miller, JD, DeFilippo, CL, Dawson, JK, and **Popelka**, GR: Word identification by listeners with sensorineural hearing loss using four amplification systems, in *Sensorineural Hearing Loss Mechanisms Diagnosis Treatment*, M.J. Collins, T.J. Glatke, and L.J. Harker, Editors. 1986, University of Iowa: Iowa City, Iowa. 305-325
39. **Popelka**, GR and Gittelman, DA: Reply to Eisenberg et al., "Response to **Popelka** and Gittelman (1984): Audiologic findings in a child with a single-channel cochlear implant". *Journal of Speech and Hearing Disorders* 1986; 51: 182-183
40. Engebretson, AM, **Popelka**, GR, Morley, RE, Niemoeller, AF, and Heidbreder, AF: A digital hearing aid and computer-based fitting procedure. *Hearing Instruments* 1986; 37(2): 8-14
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119. **Popelka**, GR and Hunter, LL: Diagnostic measurements and imaging technologies for the middle ear, 2013; Chapter 8 in *The Middle Ear, Science, Otosurgery and Technology*, S Puria, RR Fay and AN Popper, Eds., Springer, NY, NY
120. Moore, BCJ and **Popelka**, GR: Preliminary comparison of bone-anchored hearing instruments and a dental device as treatments for unilateral hearing loss. *International Journal of Audiology*, 2013; 52(10), 678-686
121. Margolis, RH and **Popelka**, GR: Bone-Conduction Calibration. *Seminars in Hearing*, 2014; 35(4), 329-345
122. Huth, M, **Popelka** G, Blevins, N: Smart phone measurements of sound exposure in movie theaters. *Ear and Hearing*, 2014, 35(6), 680-686
123. **Popelka**, G: Vestibular Schwannoma, 2015, Chapter 12, 44-50, *Adult Audiology Casebook*, M Valente and LM Valente, Eds, Thieme Medical, NY, NY
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126. **Popelka**, GR., Moore, BJC, Popper, AN, and Fay, RR: 2016, *Hearing Aids*, Springer Science, LLC, NY, NY
127. Moore, BJC and **Popelka**, GR: Introduction to Hearing Aids, 2016; Chapter 1 in *Hearing Aids*, Popelka, GR, Moore, BJC, Popper, AN and Fay, RR, Eds, Springer Science, LLC, NY, NY
128. **Popelka**, GR and Moore, BJC: Future Directions for Hearing Aid Development, 2016, Chapter 11 in *Hearing Aids*, Popelka, GR, Moore, BJC, Popper, AN and Fay, RR, Eds, Springer Science, NY, NY

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130. Barrera, JE, Pau, CY, Forest, VI, Holbrook, AB and **Popelka**, GR: Anatomic measures of upper airway structures in obstructive sleep apnea, *World Journal of Otorhinolaryngology - Head and Neck Surgery*. 2017, 3(2), 85-91
131. Batts, SA, Cheung, EL, Monfared, A, Savall, J, Jung, J, **Popelka**, GR, Blevins, NH, Schnitzer, MJ: Intravital imaging of auditory hair cells and neurites in the functional mammalian cochlea. *Nature Medicine* (Submitted, September, 2012)
132. Tass, PA, Silchenko, A, **Popelka**, GR, and Moore, BCJ: Acoustic coordinated reset therapy for tinnitus: Effect of tone frequency spacing expressed on a perceptually relevant scale. *Hearing Research* (in preparation for submission in February, 2018)

19. Invited Presentations and Guest Lectures:

1. **Popelka**, GR: Computer assisted hearing aid assessment. April 1, 1982; Missouri State Speech and Hearing Association, St. Louis, Missouri
2. **Popelka**, GR: Computer assisted hearing aid assessment for the clinician. October, 1982; American Academy of Otolaryngology, New Orleans, Louisiana
3. **Popelka**, GR: Computer assisted hearing aid assessment. April 9, 1983; American Academy of Private Practice in Speech Pathology and Audiology, Marina Del Rey, California
4. **Popelka**, GR: Computer assisted hearing aid assessment. October 24, 1983; American Academy of Otolaryngology, Anaheim, California
5. **Popelka**, GR: Computer assisted hearing aid assessment. November 18, 1983; American Speech-Language-Hearing Association, Cincinnati, Ohio
6. **Popelka**, GR: Computer assisted hearing aid assessment. February 12, 1984; American Speech-Language-Hearing Association, Las Vegas, Nevada
7. **Popelka**, GR: Computer assisted hearing aid assessment. February 13, 1984; Indiana Speech and Hearing Association, Indianapolis, Indiana
8. **Popelka**, GR: Computer assisted hearing aid assessment. June 6, 1984; Academy of Rehabilitative Audiology, Knoxville, Tennessee
9. **Popelka**, GR: Computer assisted hearing aid assessment. July 11 and 12, 1984; Indian Health Services, Billings, Montana
10. **Popelka**, GR: Computer assisted hearing aid assessment. July 16 and 17, 1984; Utah State University, Logan, Utah
11. **Popelka**, GR: Computer assisted hearing aid assessment. August 9, 1984; Hearing Aid Symposium, Madison, Wisconsin
12. **Popelka**, GR: Computer assisted hearing aid assessment. October 19, 1984; Minnesota Speech and Hearing Association, St. Paul, Minnesota
13. **Popelka**, GR: Computer assisted hearing aid fitting for maximum speech-sound/hearing area. December 5, 1984; Gallaudet College, Washington, D.C.

14. **Popelka**, GR: Computer assisted hearing aid assessment. March 23, 1985; Iowa State University, Ames, Iowa
15. **Popelka**, GR: Computer assisted hearing aid assessment. March 29, 1985; Conference on Hearing Aid Fitting, St. Louis Children's Hospital, St. Louis, Missouri
16. **Popelka**, GR: Computer assisted hearing aid assessment. April 13, 1985; Illinois Speech and Hearing Association, Chicago, Illinois
17. **Popelka**, GR: Cochlear implants in children. April 16, 1985; UCLA School of Medicine, Los Angeles, California
18. **Popelka**, GR: Computer assisted hearing aid assessment. April 19, 1985; California Speech and Hearing Association, Anaheim, California
19. **Popelka**, GR: Computer assisted hearing aid assessment. April 23, 1985; San Diego State University, San Diego, California
20. **Popelka**, GR: Computer assisted hearing aid fitting. October 2-5, 1985; Arkansas Speech, Language and Hearing Association, Hot Springs, Arkansas
21. **Popelka**, GR: Computer assisted hearing aid fitting. October 24-26, 1985; Speech and Hearing Association of Alberta, Calgary, Alberta Canada
22. **Popelka**, GR: Current concepts in hearing aid fitting. October 25-26, 1985; Kansas Speech and Hearing Association,
23. **Popelka**, GR: Computer assisted hearing aid fitting. November 1, 1985; Advanced School for Hearing Aid Fitting, Newark, New Jersey
24. **Popelka**, GR: Computer assisted hearing aid fitting. February 24-26, 1986; Amplification Update 1986, Cincinnati, Ohio
25. **Popelka**, GR: Computer assisted hearing aid fitting. March 1-2, 1986; Amplification: Demonstrating Tomorrow's Technology for Today's Patients, Newport Beach, California
26. **Popelka**, GR: Computer technology and hearing aids. March 6-8, 1986; Missouri State Speech and Hearing Association Annual Meeting, St. Louis, Missouri
27. **Popelka**, GR: Computer technology and hearing aids. March 15, 1986; New Perspectives on Amplification, Stanford University, Stanford, California
28. **Popelka**, GR: Computer technology for sensorineural hearing impairment. March 20-21, 1986; New Approaches to Sensorineural Hearing Impairment, Deafness Research Foundation, New York, New York
29. **Popelka**, GR: Computers in the rehabilitation of hearing. March 27, 1986; Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel
30. **Popelka**, GR: New developments in hearing aid technology. April 1-5, 1986; Otology Today, Riva Del Garda, Italy
31. **Popelka**, GR: Computer assisted hearing aid fitting. April 1-5, 1986; University of Wisconsin, Madison, Wisconsin
32. **Popelka**, GR: New developments in hearing aid technology. May 18, 1986; Fourth Rion International Seminar, Tokyo, Japan

33. **Popelka**, GR: The CID digital hearing aid. July 31-August 1, 1986; Digital Signal Processing and Real Ear Measurement, Madison, Wisconsin
34. **Popelka**, GR: Computer technology and auditory rehabilitation devices. September 10, 1986; Department of Otolaryngology, Washington University Medical School, St. Louis, Missouri
35. **Popelka**, GR and Pascoe, D: Hearing aid seminar. October 31-November 1, 1986; Ontario Speech and Hearing Association, Toronto, Ontario
36. **Popelka**, GR and Herzog, J: Cochlear implants. January 20, 1987; St. Louis University, St. Louis, Missouri
37. **Popelka**, GR: Computer technology and hearing aids. March 7, 1987; Ohio Speech and Hearing Association, Columbus, Ohio
38. **Popelka**, GR: Digital signal processing for the hearing impaired: Hearing aids. November 13, 1987; American Speech-Language-Hearing Association, New Orleans, Louisiana
39. **Popelka**, GR: CID hearing aid fitting method: PHASE IV. November 13, 1987; American Speech-Language-Hearing Association, New Orleans, Louisiana
40. **Popelka**, GR: Hearing aid evaluation: General principles. January 27-29, 1988; Lexington Center, New York, New York
41. **Popelka**, GR: Speech audiometry for children with cochlear implants. January 16, 1989; University of Iowa, Iowa City, Iowa
42. **Popelka**, GR: Effects of certain auditory factors on individual susceptibility to noise. January 22, 1990; Consensus Development Conference on Noise and Hearing Loss, National Institutes of Health, Washington, D.C.
43. **Popelka**, GR: Assessment of the auditory system from measurements of otoacoustic emissions. May 17, 1994; Biological and Biomedical Engineering Workshop, Washington University, St. Louis, Missouri
44. **Popelka**, GR: Biomedical science and the internet. April 14, 1995; Southern Illinois University School of Medicine, Springfield, Illinois
45. **Popelka**, GR: Distortion product otoacoustic emissions: basic and clinical issues. April 14, 1995; Department of Otolaryngology, Southern Illinois University School of Medicine, Springfield, Illinois
46. **Popelka**, GR: Information sharing via the internet. March 22, 1995; Department of Otolaryngology, Washington University School of Medicine, St. Louis, Missouri
47. **Popelka**, GR: Otoacoustic emissions. October 13, 1995; Audiology: The Scope of Practice Conference, St. Louis University and the Missouri Academy of Audiology, St. Louis, Missouri
48. **Popelka**, GR, Santi, PA, Brownell, WE, and Tabibzadeh, S: Should the Association for Research in Otolaryngology publish a peer-reviewed electronic journal? February 5, 1997; Association for Research in Otolaryngology, St. Petersburg Beach, Florida
49. **Popelka**, GR, *et al.*: A proposal for a peer-reviewed ARO journal. February 16, 1998; Association for Research in Otolaryngology, St. Petersburg Beach, Florida

50. **Popelka**, GR: Development of language and speech of deaf children identified early – Case examples. February 10, 2001; American-Speech-Language-Hearing-Association, St. Petersburg Beach, Florida
51. **Popelka**, GR: Current Issues in Universal Neonatal Hearing Screening, May 30, 2002; NHS2002: International Conference on Newborn Hearing Screening, Diagnosis and Intervention, Como, Italy (With Dauman, R, Hall, III, JW, Kileny, P, Norton, S, and Sininger, Y)
52. **Popelka**, GR: An Interview with Gerald Popelka, August 27, 2002; Audiology Online
53. **Popelka**, GR: Focus Group on the Future of Early Hearing Detection and Intervention, October 31-November 2, 2003; International Conference on Newborn Hearing Screening, Diagnosis and Intervention, Lake Orta, Italy
54. **Popelka**, GR: Hyperbilirubinemia in the Developing Neonate. November 14, 2003; Yale University Medical School, New Haven Connecticut
55. **Popelka**, GR: Auditory Function in the Developing Neonate, February 2, 2004; William Beaumont Medical Center, Royal Oaks, MI
56. **Popelka**, GR: Emerging Non-Invasive Measures of Biologic Processes, November, 2004; Stanford Otology & Neurotology Update 2004, San Francisco, CA
57. **Popelka**, GR: The Latest in Hearing Aids, November 3, 2006, Stanford Otology & Neurotology Update 2006, San Francisco, California
58. **Popelka**, GR: Recent Advances in Hearing Assessment, November 4, 2006, Stanford Otology & Neurotology Update 2006, San Francisco, California
59. **Popelka**, GR: Hyperbilirubinemia and the Developing Auditory System, November 30, 2006; Society for Ears Nose and Throat AC, San Francisco, California
60. **Popelka**, GR: Simulation-Based Learning and Auditory Function, December 6, 2007, 2nd Annual CISL Research and Development Symposium, Stanford University, Stanford, California
61. **Popelka**, GR: Hearing Loss and Hearing Aids, June 4, 2008, Health Library Series, Stanford University, Stanford, California
62. **Popelka**, GR: Latest Technological Advances in Hearing Aids, November 7, 2008 Stanford Otology & Neurotology Update 2008, San Francisco, California
63. **Popelka**, GR and Chang, KW: Practical Methods for Monitoring Ototoxicity in Chemotherapy Patients, December 1, 2009, Cancer Education Seminar Series, Stanford University Cancer Center, Stanford, California
64. **Popelka**, GR: The SoundBite Hearing System, October 16, 2011, Annual Fall Research Forum, House Ear Research Institute, Los Angeles, California
65. **Popelka**, GR: Latest Technology in Hearing Aids, May 9, 2012, Hearing Loss Association of America, San Jose, California
66. **Popelka**, GR: Audiology and Electronic Medical Records: Current Status, September 22, 2012, California Academy of Audiology, Berkeley, California
67. **Popelka**, GR: Current Options for Single Sided Deafness, November 3, 2012, Stanford Otology & Neurotology Update 2012, Stanford, California

68. **Popelka**, GR: Teletherapy and Infant Language Development, October 7, 2013, Flinders University, Adelaide, Australia
69. **Popelka**, GR: Open Horizon: Innovative 'Hearing' With Your Teeth, October 26, 2013 Open Forum Otolaryngology Meeting, Colorado Springs, Colorado, 2013
70. **Popelka**, GR: Devices for Bone Conduction Hearing, February 23, 2014, Association for Research in Otolaryngology, San Diego, California
71. **Popelka**, GR: Single-Sided Deafness Management and Treatment, January 30, 2014, Illinois Academy of Audiology, Chicago, Illinois
72. **Popelka**, GR: Latest Technology for Hearing Restoration, November 8, 2014, Stanford Otology & Neurotology Update 2014, Stanford, California
73. **Popelka**, GR: Current and Future Hearing Aid Technology, April 7, 2015, Flinders University, Adelaide, Australia
74. **Popelka**, GR: State of the Art in Tinnitus Intervention, November 5, 2016, Stanford Otology & Neurotology Update 2016, Stanford, California

20. Peer Reviewed Presentations:

1. Margolis, RH and **Popelka** GR. Detection of tones in band-reject noise. Acoustical Society of America, May 19, 1978, Providence, Rhode Island
2. **Popelka**, GR: The implementation of frequency-selective amplification procedures. November 18, 1981; American Speech-Language-Hearing Association, Los Angeles, California
3. **Popelka**, GR: Clinical Advantages of a Digital Hearing Aid. November 19, 1983; American Speech-Language-Hearing Association, Cincinnati, Ohio
4. **Popelka**, GR: A unified digital hearing aid design and fitting procedure. November 19, 1983; American Speech-Language-Hearing Association, Cincinnati, Ohio
5. **Popelka**, GR: Audiologic findings in a child with a cochlear implant. November 19, 1983; American Speech-Language-Hearing Association, Cincinnati, Ohio
6. **Popelka**, GR: Selection of amplification for adults, infants and low-functioning children; Keynote Speaker. September 18-20, 1985; Fifth Annual Van Riper Lectures, Kalamazoo, Michigan
7. **Popelka**, GR and Mason, DI: Hearing aid gain with coupler, functional, and probe-tube measurements. November 22-25, 1985; American Speech-Language-Hearing Association, Washington, D.C.
8. **Popelka**, GR, Geers, AE, Moog, JS, and Calvert, DR: Predicting spoken language acquisition of deaf children. August 4-9, 1985; International Congress on Education of the Deaf, Manchester, England
9. **Popelka**, GR, Himelfarb, MZ, and Whyte, MP: X-Linked hypophosphatemia and auditory impairment. February 1-6, 1986; Association for Research in Otolaryngology, Clearwater, Florida
10. **Popelka**, GR: Assessment of hearing aid performance and benefits from amplification. November 17, 1989; American Speech-Language-Hearing Association, St. Louis, MO

11. **Popelka**, GR, Russo, M.: Development of speech perception assessment tools for hearing-impaired children. November 18, 1990; American Speech-Language-Hearing Association, Seattle, Washington
12. **Popelka**, GR, Davidson, L., Holstad, B.: Reassessment of the role of the educational audiologist. November 17, 1990; American Speech-Language-Hearing Association, Seattle, Washington
13. **Popelka**, GR, Mason, D, Russo, M: Evaluation of probe-tube measures of hearing aid maximum output. November 16, 1990; American Speech-Language-Hearing Association, Seattle, Washington
14. **Popelka**, GR, Mason, D, and Russo, M: Issues relating to individual and averaged measurements of real-ear SSPL-90. November 24, 1991; American Speech-Language-Hearing Association, Atlanta, Georgia
15. **Popelka**, GR, Russo, M, Mason, D, and Gilbert, R: Asymmetrical hearing loss: Predicting handicap from percent binaural hearing impairment. November 21, 1992; American Speech-Language-Hearing Association, San Antonio, Texas
16. **Popelka**, GR, Osterhammel, P, Nielsen, L, and Rasmussen, A: Growth of the $2f_1$ - f_2 distortion product otoacoustic emission with stimulus level in normal hearing humans. February 8, 1993; Association for Research in Otolaryngology, St. Petersburg Beach, Florida
17. **Popelka**, GR, Karzon, R, and Ellis Arjmand, E: Growth of the $2f_1$ - f_2 distortion product otoacoustic emission for low-level stimuli in human neonates. February 7, 1994; Association for Research in Otolaryngology, St. Petersburg Beach, Florida
18. **Popelka**, GR, Karzon, R, and Arjmand, E: Developmental characteristics of the $2f_1$ - f_2 distortion product otoacoustic emission (DPOAE) in human neonates. February 7, 1995; Association for Research in Otolaryngology, St. Petersburg Beach, Florida
19. **Popelka**, GR: The relation between hearing sensitivity and the $2f_1$ - f_2 distortion product otoacoustic emission for low-level stimuli. February 7, 1995; Association for Research in Otolaryngology, St. Petersburg Beach, Florida
20. **Popelka**, GR, Karzon, RK, and Clary, RA: Noise floor characteristics of distortion product otoacoustic emission measurements in human neonates. February 2, 1997; Association for Research in Otolaryngology, St. Petersburg Beach, Florida
21. Popper, AN and **Popelka**, GR: A proposal to create an ARO peer-reviewed journal. February 14, 1999; Association for Research in Otolaryngology, St. Petersburg Beach, Florida
22. **Popelka**, GR, Causevic, EM, Morley, RE, and Ellsworth, AR: Spectral content of noise from isolated sources during distortion product otoacoustic emissions measurements. February 15, 1999; Association for Research in Otolaryngology, St. Petersburg Beach, Florida
23. Popper, AN and **Popelka**, GR: Further discussion of a proposal to create an ARO peer-reviewed journal. February 17, 1999; Association for Research in Otolaryngology, St. Petersburg Beach, Florida
24. **Popelka**, GR, Causevic, EM, Krohn, R., Morley, RE, Wickerhauser, VM, Zhao, J. and Walden, R.: Interaction of environmental noise, measurement type, and digital signal processing for universal neonatal auditory screening. February 21, 2000; Association for Research in Otolaryngology, St. Petersburg Beach, Florida

25. **Popelka**, GR, and Moog, JS: Development of language and speech of deaf children identified early. October 12, 2000; International Conference on Newborn Hearing Screening, Diagnosis and Intervention, Milan, Italy
26. Causevic, E, Causevic, E. and **Popelka**, GR: Application of artificial intelligence for automated infant hearing screening and diagnosis. October 12, 2000; International Conference on Newborn Hearing Screening, Diagnosis and Intervention, Milan, Italy
27. **Popelka**, GR, Causevic, E, Krohn, RJ and Karzon, RK: Spectral content of ambient noise in typical hospital nurseries. October 12, 2000; International Conference on Newborn Hearing Screening, Diagnosis and Intervention, Milan, Italy
28. Causevic, EM, Wickerhauser, Causevic, E and **Popelka**, GR: Wavelet transform analysis and noise reduction for auditory evoked responses. February 5, 2001; Association for Research in Otolaryngology, St. Petersburg Beach, Florida
29. Causevic, E, Causevic, E. and **Popelka**, GR: Application of artificial intelligence for automated infant hearing screening and diagnosis. March 22, 2001; New Frontiers in the Amelioration of Hearing Loss. Central Institute for the Deaf, St. Louis, Missouri
30. **Popelka**, GR, Causevic, E, Krohn, RJ and Karzon, RK: Spectral content of ambient noise in typical hospital nurseries. March 22, 2001; New Frontiers in the Amelioration of Hearing Loss. Central Institute for the Deaf, St. Louis, Missouri
31. Causevic, EM, Wickerhauser, Causevic, E and **Popelka**, GR: Wavelet transform analysis and noise reduction for auditory evoked responses. March 22, 2001; New Frontiers in the Amelioration of Hearing Loss. Central Institute for the Deaf, St. Louis, Missouri
32. **Popelka**, GR, Causevic, E, Karzon, RK and Parthasarathy, TK: Measurement Principles for Neonatal Auditory Screening. April 24, 2001; American Academy of Audiology, San Diego, California
33. **Popelka**, GR, Hall, III, JW, Smith, SD, Davis, II, WN: Short-Term Maturation of the Neonate Auditory Brainstem Response. January 29, 2002; Association for Research in Otolaryngology, St. Petersburg Beach, Florida
34. **Popelka**, GR, Causevic, E, Karzon, RK and Parthasarathy, TK: Neonatal Hearing Screening Test Protocols and Measures. April 20, 2002; American Academy of Audiology, Philadelphia, Pennsylvania
35. Hall, III, JW, Smith, SD, Davis, II, WN and **Popelka**, GR: Combined automated auditory brainstem response and otoacoustic emissions measurement in infancy. May 30, 2002; NHS2002: International Conference on Newborn Hearing Screening, Diagnosis and Intervention, Como, Italy
36. **Popelka**, GR: The One-Two of Universal Neonatal Hearing Screening, October 10, 2003; National Association of Neonatal Nurses, Palm Springs, CA
37. **Popelka**, GR: Auditory Function and Hyperbilirubinemia in the Developing Neonate, December 7, 2003; Hot Topics in Neonatology, Washington, DC
38. **Popelka**, GR, Martinosky, JW, Walden, RE and Gourley, GR: Auditory Function and Hyperbilirubinemia in the Developing Neonate, Association for Research in Otolaryngology, Daytona Beach Florida, February 25, 2004
39. **Popelka**, GR: New Technology from Everest Biomedical, American Auditory Society, Phoenix, AZ, March 7, 2004

40. **Popelka**, GR, Engel, RR, Martinosky, JE, Himelfarb, MZ, Barak, M, Gourley, GR: A Multi-Center Study of Neonatal Breath Carbon Monoxide Using a New Non-Invasive Approach, Pediatric Academic Society, San Francisco, May, 2004
41. **Popelka**, GR: Total Serum Bilirubin Levels and Auditory Brainstem Function in the Developing Neonate, Association for Research in Otolaryngology, New Orleans, Louisiana, February 21, 2005
42. Vreman, HJ, Wong, RJ, Stevenson, DK, McClatchie, EA, **Popelka**, GR, Rolf R. Engel: A New, Portable, Bedside ETCOc Measuring Device: Evaluation of Linearity, Accuracy, and Precision versus Gas Chromatography, Pediatric Academic Society, Washington DC, May, 2005
43. Engel, RR, **Popelka**, GR, Vreman, HJ, Stevenson, DK, Martinosky, J: Breath End Tidal Carbon Monoxide Measurement Improves Prediction of Need for Phototherapy in Neonates with Maternal Blood Type Incompatibility, Pediatric Academic Society, Washington DC, May, 2005
44. Monfared A, Blevins NH, Cheung ELM, Jung J, **Popelka** G, Chang K, Jackson R, Schnitzer M: Fluorescence Microendoscopy of the Mammalian Inner Ear, American Neurotology Society Spring COSM, Boca Raton, Florida, May 14-15, 2005
45. **Popelka**, GR: Total Serum Bilirubin Levels and Auditory Brainstem Function in the Developing Neonate, Pediatric Academic Society, Washington DC, May, 2005
46. **Popelka**, GR: New Technology in Neurotology, Keynote Speaker, Otology & Neurotology Conference, Tel Aviv, Israel, June 10, 2005
47. **Popelka**, GR and Kent, RD: Dynamics of Speech and Swallowing, Association for Research in Otolaryngology, Baltimore, Maryland, February 5, 2006
48. Santos, JM, Butts, K, **Popelka** GR and Pauly JM: Real-Time MRI of Speech and Swallowing in Upright Position, International Society for Magnetic Resonance in Medicine: Dynamic Interactive Imaging and its Applications, Santa Monica, California, February 22-24, 2006
49. Cheung, ELM, Monfared, A, **Popelka**, G, Blevins, NH, M.J. Schnitzer, MJ: In vivo assessment of mammalian auditory hair cell functionality using fluorescence microendoscopy, Society for Neuroscience, Atlanta, Georgia, October 14-18, 2006
50. Santos, JM, Butts, K, **Popelka** GR and Pauly JM: Real-Time MRI of Speech and Swallowing in Upright Position, International Society for Magnetic Resonance in Medicine, SMRT 16th Annual Meeting, Berlin, Germany, May 19-25, 2007
51. Cheung, E, Monfared, A, **Popelka**, GR, Blevins, N, Schnitzer, M: *In vivo* imaging and functional assessment of mammalian auditory hair cells using one- and two-photon fluorescence microendoscopy, Association for Research in Otolaryngology, Denver, Colorado, February 10, 2007
52. Barrera, JE, Forest, VI, Holbrook, AB, **Popelka**, GR: Predictors of Airway Obstruction in Adult Sleep Apnea; Research Forum, American Academy of Otolaryngology, Washington DC, September 16, 2007
53. Holbrook AB, Barrera JE, Santos JM, Butts-Pauly K, **Popelka** GR: Real Time Sleep MRI and Physiologic Monitoring of Patients with Obstructive Sleep Apnea; International Society for Magnetic Resonance in Medicine, Toronto, Ontario, Canada, May 3-9, 2008

54. Vreman, Hj, Wong, RJ, McClatchie, EA, **Popelka**, GR and Stevenson, DK: A New Portable Hand Held ET_{CO}c Measuring Device: Evaluation of Linearity, Accuracy and Precision Versus Gas Chromatography, Breath Analysis for Biomedicine and National Security Sensor Design Issues and Strategies for National Security: Sensor Design Issues and Strategies for Biomarker Discovery Workshop, University of California-Davis, CA, September 8-9, 2008
55. **Popelka**, GR, Barak, N, Himelfarb M, Gourley, GR, Vreman, Hj, Wong, RJ, and Stevenson, DK: End Tidal Breath Carbon Monoxide Measurements: Normative Studies. Breath Analysis for Biomedicine and National Security Sensor Design Issues and Strategies for National Security: Sensor Design Issues and Strategies for Biomarker Discovery Workshop, University of California-Davis, CA, September 8-9, 2008
56. Barrera, JE, Holbrook, AB, Santos, J, **Popelka**, GR: Pulse Arterial Tone and Airway Obstruction in Sleep Apnea; Research Forum, American Academy of Otolaryngology, Chicago, IL September 21-24, 2008
57. Puria, S, O'Connor, K, Yamada, H, Shimizu, Y, **Popelka**, GR, Steele, C: Do otoacoustic emissions travel in the cochlea via slow or fast waves?, Association for Research in Otolaryngology, Baltimore, Maryland, February 16, 2009
58. **Popelka**, GR, Derebery J, Blevins, NH, Murray, M, Moore BCJ, Sweetow, RW, Wu B: Evaluation of a New Device for Single Sided Deafness; American Auditory Society, Scottsdale, Arizona, March 7, 2009
59. **Popelka**, GR, Telukuntla, G, Puria, S.: Auditory Thresholds by Bone Conduction for High Frequencies, American Academy of Audiology, Dallas, Texas, April, 2, 2009
60. **Popelka**, GR, Derebery J, Blevins, NH, Murray, M, Moore BCJ, Sweetow, RW, Wu, B, Centore, L, Katsis, M: Evaluation of a New Device for Single Sided Deafness; American Otological Society, Phoenix, Arizona, May 30, 2009
61. **Popelka**, GR, Telukuntla, G, Puria, S: Auditory Thresholds by Bone Conduction for High Frequencies, 5th International Symposium on Middle Ear Mechanics in Research and Otolaryngology, Stanford University, Stanford CA, June 28, 2009
62. Barrera, JE, Chang, RC, **Popelka**, GR: Reliability of airway obstruction analysis from sleep MRI; Research Forum, American Academy of Otolaryngology, San Diego, CA October 4-7, 2009
63. Tidmarsh, GF, Vreman, HJ, **Popelka**, GR and Stevenson, DK: A Hand-Held End Tidal Carbon Monoxide (CO) Measurement Device for Quantification Of Hemolysis In Newborns; Second Annual Workshop on Breath Analysis for Biomedicine and National Security, SRI International, Palo Alto, CA, November 16, 2009
64. Delgado, RE, **Popelka**, GR, Yavuz, E, Lopez, CN: AEP and OAE Simulator for Newborn Hearing Screening Training; NHS 2010 Conference, Cernobbio (Como Lake), Italy, June 8-10, 2010
65. **Popelka**, GR: Laboratory and Clinical Measures of a Novel Bone Conduction Device for Single Sided Deafness; American Academy of Audiology, San Diego, CA, April 15, 2010
66. Proulx, TL, **Popelka**, GR: Development of an invisible and removable intra-oral tissue conduction microphone for hearing device applications; International Hearing Aid Research Conference, Lake Tahoe, CA, August 19, 2010

67. Murray, M, **Popelka**, GR, Miller, R, Tucker, J, Dolan, R: Bone Conduction via Teeth for Unilateral Deafness, Validated; American Academy of Otolaryngology, Boston, Massachusetts, September 28, 2010
68. Batts, S, Cheung, E, Monfared, A, Blevins, N, **Popelka**, G, Schnitzer, M: In Vivo Imaging of Functional Mammalian Hair Cells with Fluorescence Microendoscopy, Association for Research in Otolaryngology, Baltimore, Maryland, February 21, 2011
69. **Popelka**, GR, Derebery, MJ, Murray M, Miller R: Efficacy And Safety Of An In-The-Mouth Bone Conduction Device For Single Sided Deafness, Third International Symposium on Bone Conduction Hearing – Craniofacial Osseointegration Meeting, Sarasota, Florida, March 26, 2011
70. **Popelka**, GR, and Swanson, A: Audiology and Electronic Medical Records: Getting Closer, American Academy of Audiology Annual Meeting, Chicago, Illinois, April 8, 2011
71. Murray M, and **Popelka**, GR: Long Term Clinical Findings for a Novel Bone Conduction Device for Single Sided Deafness, AOS/COSM Spring Meeting Scientific Sessions, Chicago, Illinois, May 1, 2011
72. Larky, J, Loy, M, Friedlander, E, **Popelka**, G and Blevins, N: Reconsidering Cochlear Implantation in Subjectively Sub-Optimal Pediatric Candidates: 13th Symposium on Cochlear Implants in Children, Chicago, Illinois July 14-16, 2011
73. Pikhart, KN, **Popelka**, GR, Sisto, R, Moleti, A, Oghalai, JS, Xia, A, Puria, S: Stimulus Frequency Otoacoustic Emissions (SFOAEs) in Wild Type and TECTA Mice, Mechanics of Hearing, 11th International Workshop, Williamstown, Massachusetts, July 16-22, 2011
74. **Popelka**, GR, and Moore, BCJ, Evaluation of methods for comparing devices for unilateral hearing loss, Fourth International Meeting on Bone Conduction Hearing, Newcastle-on-Tyne, England, June 6-8, 2013
75. **Popelka**, GR, Gurgel, R, and Shelton, C., A Long Term Multi-Site Study of the Safety and Benefit Study of the SoundBite Hearing System, Fourth International Meeting on Bone Conduction Hearing, Newcastle-on-Tyne, England, June 6-8, 2013
76. **Popelka**, GR, Tinnitus Demographics, Current Interventions and Sound Therapy Delivered by Hearing Aids, International Hearing Aid Research Conference: IHCON 2016, Lake Tahoe, California, August 10-14, 2016

21. Continuing Education:

- 1997 Molecular biology techniques and applications to otolaryngology, Short course of the Association for Research in Otolaryngology, February 1, 1997
- 1998 Techniques used in evaluating cochlear function, Short course of the Association for Research in Otolaryngology, February 14, 1998
- 1999 Anatomical techniques for research in otolaryngology, Short course of the Association for Research in Otolaryngology, February 13, 1999
- 2000 Introduction to psychoacoustic research: Methods and terminology, Short course of the Association for Research in Otolaryngology, February 19, 2000

- 2001 Non-Syndromic Deafness: Clinical issues and research opportunities, Short course of the Association for Research in Otolaryngology, February 3, 2001
- 2002 Neuroethology: What birds, bats, and bullfrogs can tell us about speech perception, Short course of the Association for Research in Otolaryngology, January 26, 2002
- 2003 Vestibular System 101: Introduction to Vestibular System Structure and Function for Non-Experts, Short course of the Association for Research in Otolaryngology, February 22, 2003
- 2004 Embryonic Stem Cells: From Cell Culture to Clinic, Short course of the Association for Research in Otolaryngology, February 21, 2004
- 2004 Otology & Neurotology Update, San Francisco, California, November 4, 2004
- 2006 Otology & Neurotology Update, San Francisco, California, November 3, 2006
- 2008 Otology & Neurotology Update, San Francisco, California, November 7, 2008
- 2010 Otology & Neurotology Update, Stanford, California, November 4, 2010
- 2011 Fall Research Forum, House Ear Institute, Los Angeles, California, October 15, 2011
- 2012 California Academy of Audiology, Berkeley, California, September 22, 2012
- 2012 Otology & Neurotology Update, Stanford, California, November 1, 2012
- 2014 Otology & Neurotology Update, Stanford, California, November 6, 2014
- 2016 Otology & Neurotology Update, Stanford, California, November 3, 2016

22. Service:

a. Committee Memberships

- 1980-1986 Convention Committee Chairman, Technical Sessions, American Speech-Language-Hearing Association
- 1981 Convention Committee Member, Technical Sessions, American Speech-Language-Hearing Association
- 1982 Ad Hoc Study Section Member, National Institutes of Health, Washington, D.C., March, 1982
- 1983 Workshop Director: Computer Assisted Hearing Aid Evaluation, St. Louis, Missouri
- 1983 Site Visit Member, National Institutes of Health, San Francisco, California, December, 1983
- 1984 External Advisory Committee Member, Program Project:

“Neuro-Otology Clinical Research Center”,
Baylor School of Medicine

- 1986 Publication Committee Member, Association for Research in Otolaryngology
- 1986 Revenue Committee Member, Association for Research in Otolaryngology
- 1989-1992 Advisor for Committee on Hearing, Bioacoustics, and Biomechanics (CHABA)
- 1993 Ad Hoc Study Section Member, National Institutes of Health, Washington, D.C., August, 1993
- 1996-1998 Ad Hoc Scholarly Publication Committee Chair, Association for Research in Otolaryngology
- 1998-2001 Ad Hoc Scholarly Publication Committee Co-Chair, Association for Research in Otolaryngology
- 1998 Reviewer for Fellowship applications, Association of Teachers of Preventive Medicine
- 2001-2009 Member, Healthy Hearing Audiology Advisory Board, Audiology Online
- 2001 Ad Hoc Study Section Member, National Institutes of Health, Washington, D.C., November, 2001
- 2002 Ad Hoc Study Section Member, National Institutes of Health, Washington, D.C., July, 2002
- 2003 Ad Hoc Study Section Member, National Institutes of Health, Washington, D.C., July, 2003
- 2004-2009 Member, Mentors Directory for Deaf and Hard-of-Hearing (HoH) Individuals, National Institutes on Deafness and Other Communication Disorders, National Institutes of Health, Washington, D.C.
- 2009 Member, Organizing Committee, 5th International Symposium on Middle Ear Mechanics in Research and Otolaryngology, Stanford University, Stanford CA, June 24-28, 2009
- 2009- Board Member, Baker Institute for Hearing Impaired Children, Palo Alto, CA

b. Volunteer Activities

- 1988 Judge, Monsanto/St. Louis Post Dispatch Science Fair of Greater St. Louis
- 1998-2000 Presenter, Washington University Book Awards to High School Juniors
- 1996-2000 Contributor, Mad Scientist website, wrote responses to 19 inquiries concerning sound and audition

- 2000- Contributor, Audiology Online website, wrote responses to inquiries concerning audiology
- 2007 Contributor, Living History Project, Stanford University
A first person oral history of political activism for the civil rights and anti-war movements of the 1960s