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# NIOSH Hearing Loss Research Program

## **Professional Staff**

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## DANIEL R. BABICH

<b>Title</b>	Mining Engineer
<b>Discipline</b>	Mining engineering
<b>Location</b>	Pittsburgh Research Laboratory Hearing Loss Prevention Branch
<b>Address</b>	P.O. Box 18070, Cochrans Mill Road Pittsburgh, PA 15236
<b>Telephone</b>	412-386-6578
<b>NIOSH Employment</b>	10/1/1996 (U.S. Bureau of Mines, 5/4/1975 through 9/30/1996)

### Education

- B.S. Mining Engineering, Pennsylvania State University, 1974
- Partial completion of M.B.A., Duquesne University, 1985-1986

### Professional Certifications

- Certified, Occupational Hearing Conservationist, Council for Accreditation in Occupational Hearing Conservation (CAOHC), No. 65221, 2000
- Bituminous Miner's Certificate of Competency and Qualification, Commonwealth of Pennsylvania, Department of Mines, B.M.C. No. 16401, 1974
- Certificate of Competency and Qualifications as Bituminous Cutting Machine, Loading Machine, and Drilling Machine Operator, Commonwealth of Pennsylvania, Department of Mines, No. 23277, 1974

### Research Interests

Noise control and hearing loss prevention in mining, ground control in underground mining

### Memberships

College of Earth and Mineral Sciences Alumni Society, Pennsylvania State University

### National Committee Assignments

- Technical Evaluator, U.S. Bureau of Mines' Advanced Mining Systems Metal/Non-Metal Mining Technology Ground Control Rating Committee, 1993-1994
- Coordinator, U.S. Bureau of Mines' Advanced Mining Systems Metal/Non-Metal Clean Mining Long Range Planning Committee, 1993

- Research Technical Liaison, Virginia Polytechnic Institute and State University on Generic Mineral Technology Center Project System Engineering Analysis of Longwall Failures, 1988–1990
- West Virginia Mine Safety and Technical Review Committee Task Force Concerned With Roof Control Problems in Thin Seam Auger Mines, 1988–1989

### **Honors**

- Group Award for Assistance in the Cooperative Study of Noise and Vibration of Vibrating Screens at the Federal No. 2 Preparation Plant, 2003
- Honor Student Commendation, 98% Score on Basic Project Officer Examination, 1998

### **Recent Publications**

1. Babich DR, Bauer ER [2005]. Summary of longwall and continuous miner noise studies in underground coal mines. (Final technical reviews completed; proposed for publication in peer review journal.)
2. Bauer ER, Babich DR [2004]. Administrative controls for reducing worker noise exposures. Society for Mining, Metallurgy, and Exploration, Inc., Littleton, CO: SME Preprint 04–09.
3. Bauer ER, Babich DR [2004]. Worker exposure and equipment noise in large surface coal mines. *Mining Eng*, pp. 49–54.
4. Vipperman JS, Bauer ER, Spencer ER, Babich DR [2001]. Survey and assessment of noise in coal preparation facilities [Abstract]. *J ASA*, 142nd Meeting of the Acoustical Society of America, Fort Lauderdale, FL, December 3–7.

# EDWARD A. BARRETT

<b>Title</b>	Mining Engineer
<b>Discipline</b>	Mining, education, training
<b>Location</b>	Pittsburgh Research Laboratory Hearing Loss Prevention Branch
<b>Address</b>	P.O. Box 18070, Cochrans Mill Road Pittsburgh, PA 15236
<b>Telephone</b>	412-386-5068
<b>NIOSH Employment</b>	10/1/1996 (U.S. Bureau of Mines, 4/30/1968 through 9/30/1996)

## Education

B.S. Secondary Education, Mathematics, Bloomsburg University, 1963

## Professional Certifications

- Certified Mine Safety Professional, International Society of Mine Safety Professionals, 2000
- Certified MSHA Instructor, Part 48 Surface and Underground, 1994
- OSHA Instructor Part 1926, Construction, 1996
- OSHA Instructor Part 1910, General Industry, 1997
- Permanent Pennsylvania Teaching Certificate, Commonwealth of Pennsylvania, 1964

## Research Interests

Education and training

## Memberships

International Society of Mine Safety Professionals

## Honors

- United States Patent No. 4,768,049, 1988
- Nine Special Achievement Awards, 1979-present

## Recent Publications

1. Barrett EA, Calhoun RA [2005]. Drill rig incident. IC 9473. DHHS NIOSH Publication No. 2005-108, pp.1-19.
2. Barrett EA, Calhoun RA [2004]. Wearing hearing protection properly. IC 9472. DHHS NIOSH Publication No. 2004-107, pp. 1-14.
3. Kowalski-Trakofler KM, Barrett EA [2003]. The concept of degraded images applied to hazard recognition training in mining for reduction of lost-time injuries. J Safety Res.
4. Barrett EA, Rethi LL [2001]. Independent contractor fatalities in the mining industry: a look at contributing factors. J Safety Res.
5. Barrett EA [2000]. Development and evaluation of a training exercise for construction, maintenance, and repair work activities. Proceedings of the 31st Annual Institute on Mining Health, Safety and Research, Virginia Tech.

## ERIC R. BAUER

<b>Title</b>	Mining Engineer
<b>Discipline</b>	Occupational safety and health research related to hearing loss prevention, ergonomics, and ground control
<b>Location</b>	Pittsburgh Research Laboratory Hearing Loss Prevention Branch
<b>Address</b>	P.O. Box 18070, 626 Cochrans Mill Road Pittsburgh, PA 15236
<b>Telephone</b>	412-386-6518
<b>NIOSH Employment</b>	10/1/1996 (U.S. Bureau of Mines, 11/5/1979 through 09/30/1996)

### Education

- B.S. Mining Engineering, Pennsylvania State University, 1976
- M.S. Industrial Engineering, University of Pittsburgh, 1985
- M.E. Mining Engineering, University of Kentucky, 1994
- Ph.D. Mining Engineering, Pennsylvania State University, 1997

### Professional Certifications

- Registered Professional Engineer, Commonwealth of Pennsylvania
- Certificate of Competency, Foreman Nongaseous Mine, State of Ohio

### Research Interests

Hearing loss prevention, noise control, ergonomics, ground control

### Memberships

Society of Mining Engineers

### National Committee Assignments

- Professional Engineering Review Committee, 2004–present
- Member, Coal Noise Partnership Committee, 2000–present

### Honors

- NIOSH Outstanding Performance Award, 2000, 2002–2004
- Silver Award, Outstanding Team, Pittsburgh Federal Executive Board, 1999
- Pittsburgh Research Center Engineer of the Year, 1994
- Special Achievement Award, Pittsburgh Research Center Publication of the Year 1992; Best In-House Publication in a Bureau Series, 1993
- Silver Award, Outstanding Professional Employee, Pittsburgh Federal Executive Board, 1992
- USBM Outstanding Performance Award, 1989

## Recent Publications

1. Bauer ER, Reeves DR, Durr TM, Zuchelli DR, Armour D [2005]. Testing and evaluation of an engineering noise control on a longwall stageloader. SME Preprint No. 05–58.
2. Yantek D, Jurovcik P, Bauer E [2005]. Noise and vibration reduction of a vibrating screen. SME Preprint No. 05–71
3. Bauer ER, Babich DR [2004]. Administrative controls for reducing worker noise exposures. SME Preprint 04–09.
4. Bauer ER, Babich DR [2004]. Worker exposure and equipment noise in large surface coal mines. *Mining Eng* 56(4):49–54.
5. Steiner L, Bauer E, Cook A, Cornelius K, Gallaheer S, Rethi L, Rossi EW, Turin F, Wiehagen W [2004]. Collaborative ergonomic field research: an assessment of risk factors at four mines. *Mining Eng* 56(2):41-48.
6. Bauer ER, Babich DR [2003]. Worker exposure and equipment noise in large surface coal mines. SME Preprint No. 03–051.
7. Bauer ER [2002]. Problems associated with noise measurements in the mining industry [Abstract]. ASA Meeting, June 3–7, 1pNS4, 111(5, Part 2):2336.
8. Bauer ER, Podobinski DJ, Reeves ER, Viperman JS [2001]. Noise exposure in longwall mining and engineering controls research. *Proceedings of the Longwall USA*, pp. 51–69.
9. Bauer ER, Bise CJ [2000]. Deep cut ground control and worker safety in coal mines. *Mining Eng* 52(6):110–116.
10. Bauer ER, Kohler JL [2000]. Cross-sectional survey of noise exposure in the mining industry. *Proceedings of the 31st Annual Institute on Mining Health, Safety, and Research*, Roanoke, VA, pp. 17–31.

# SCOTT E. BRUECK

<b>Title</b>	Industrial Hygienist
<b>Discipline</b>	Industrial hygiene, noise monitoring, air contaminant monitoring, task-based exposure analysis, respiratory protection, bloodborne pathogens
<b>Location</b>	Division of Surveillance Hazard Evaluations and Field Studies Industrywide Studies Branch
<b>Address</b>	4676 Columbia Parkway Cincinnati, OH 45226
<b>Telephone</b>	513-841-4140
<b>NIOSH Employment</b>	09/10/2001

## Education

- B.A. Biology; Minor, History, Wittenberg University, 1988
- M.S. Industrial Hygiene, University of Cincinnati, 1990

## Research Interests

Noise monitoring methodology, hearing loss, industrial hygiene

## Memberships

American Conference of Governmental Industrial Hygienists Infectious Agents Committee, 1996-2000

## Professional Certifications

Certified, Comprehensive Practice of Industrial Hygiene, American Board of Industrial Hygiene, CIH Certificate No. 6530, 1995

## Honors

- NIOSH Special Act Award, exemplary efforts in a large complex noise study conducted at three plant sites in Montreal, Canada, 2003
- NIOSH On-the-Spot Award, exemplary work on retrospective exposure reconstruction of noise levels for the Hearing Conservation Program Effectiveness Study, 2003
- U.S. Department of Health and Human Services Civil Service Special Act Award for contribution to the NIOSH and CDC response to the World Trade Center and Anthrax National Emergencies, 2002

## Recent Publications

Personal protective equipment, Ch. 5 [1999]. In: Marshall G. Safety engineering, 3rd ed. American Society of Safety Engineers.

## DAVID C. BYRNE

<b>Title</b>	Research Audiologist
<b>Discipline</b>	Hearing Conservation/Noise Control
<b>Location</b>	Division of Applied Research and Technology Engineering and Physical Hazards Branch
<b>Address</b>	4676 Columbia Parkway Cincinnati, OH 45226
<b>Telephone</b>	513-533-8414
<b>NIOSH Employment</b>	06/07/1998

### Education

- B.A. Physics, University of Pittsburgh, 1984
- M.S. Audiology, The Pennsylvania State University, 1987
- Ph.D. Communication Science and Disorders, University of Pittsburgh, 2006 (expected)

### Professional Certifications

- Certificate of Clinical Competence in Audiology (CCC-A), American Speech-Language-Hearing Association, 1989
- Certified Course Director, Council for Accreditation in Occupational Hearing Conservation, 1988
- Licensed Audiologist, Commonwealth of Pennsylvania, 2004

### Research Interests

Prevention of noise-induced hearing loss through personal hearing protection and engineering controls; Effect of noise on hearing and speech communication ability

### Memberships

- National Hearing Conservation Association
- American Speech-Language-Hearing Association
- Council for Accreditation in Occupational Hearing Conservation

### National Committee Assignments

- Co-chair, National Hearing Conservation Association Publications Committee and Co-Editor of the NHCA publication *Spectrum* (July 2003 to present).
- Chair, American National Standards Institute working group -- ANSI S12 Committee on Noise, Working Group 13 (June 1999 to present).
- Member, American Society for Testing and Materials (ASTM) Committee that is working on a standard test method for field-testing the noise reduction capability of sound-isolating enclosures (March 1999 to present).
- Member, Coal Noise Partnership Committee. The committee consists of members from the BCOA, UMWA, NMA, and MSHA. The committee was formed to collectively address the issues related to hearing loss in the mining industry (August 2000-Present).



## Honors

- 2003-NIOSH-Outstanding Performance Award
- 2000-Gold Award for Outstanding Professional Medical/Scientific Employee at the Excellence in Government Awards Program sponsored by the Pittsburgh Federal Executive Board
- 2000-NIOSH-Outstanding Performance Award
- 1997-American Speech-Language-Hearing Association Award for Continuing Education
- 1992-American Speech-Language-Hearing Association Award for Continuing Education
- 1990-American Speech-Language-Hearing Association Award for Continuing Education

## Recent Publications

1. Byrne, DC, and ER Reeves (in preparation). "Analysis of non-standard noise dosimeter microphone positions" *Journal of the Acoustical Society of America*.
2. Morata, TC, CL Themann, RF Randolph ,BL Verbsky, DC Byrne, and ER Reeves (in press). "Attitudes and Beliefs About Hearing Loss Prevention Among Workers with Self-Reported Hearing Difficulties" *Ear and Hearing*.
3. Randolph, RF, JL Kohler, and DC Byrne [2002]. "Communicating the Same Message with Different Media: An Example from Hearing Loss Prevention" in *Strategies for Improving Miners' Training*, Information Circular 9463, DHHS (NIOSH) Publication No. 2002-156.
4. Byrne, DC [2002]. "The Consequences of Leaky Enclosures" *Sound and Vibration*, 36(1):36-38.
5. Michael, KL, and Byrne, DC [2000]. "Industrial Noise and Conservation of Hearing" Chapter 19 in *Patty's Industrial Hygiene*, Fifth Edition, Volume 2, Robert L. Harris, ed., John Wiley & Sons, Inc., New York.

**RICKIE R. DAVIS**  
Commander, U.S. Public Health Service

<b>Title</b>	Co-Team Leader, Hearing Loss Prevention Team
<b>Discipline</b>	Ototoxic agents (chemical & noise), hearing loss
<b>Location</b>	Division of Applied Research and Technology Engineering and Physical Hazards Branch
<b>Address</b>	4676 Columbia Parkway Cincinnati, OH 45226
<b>Telephone</b>	513-533-8142
<b>NIOSH Employment</b>	10/7/1985

**Education**

- B.S. Psychology, Washington State University, 1973
- M.S. Psychology, Rensselaer Polytechnic Institute, 1975
- Ph.D. Medical Psychology, Oregon Health Sciences University, 1981

**Research Interests**

Mechanisms of noise damage, hearing protector comfort, genetics of noise susceptibility

**Memberships**

- Association for Research in Otolaryngology
- Commissioned Officers Association, U.S. Public Health Service (local and national)
- Acoustical Society of America (local only)

**Honors**

**USPHS Individual Honor and Unit Awards**

- Achievement Medal, 1989, 1993, 2002
- Bicentennial Unit Commendation, 1998
- Surgeon General's Certificate of Appreciation, 1996
- Unit Commendation Award, 1993-1995
- PHS Citation, 1990, 1993

**Other USPHS Awards**

- Commissioned Corps Training Ribbon, 2002
- Regular Corps Ribbon, 1991

**Non-PHS Awards**

- Special Act or Service Award, 1993
- Kentucky-1 Disaster Medical Assistance Team, Distinguished Member of the Year, 2002
- Top Ten District Newsletter, Toastmasters International, 1998, 2000

## Recent Publications

1. Davis RR, Kozel P, Erway LC [2003]. Genetic influences in individual susceptibility to noise: a review. *Noise and Health* 5(20)19–28.
2. Davis RR, Murphy WJ, Snawder JE, Striley CAF, Henderson D, Khan A, Krieg E [2002]. Susceptibility to the ototoxic properties of toluene is species specific. *Hearing Res* pp. 16624–16632.
3. Davis RR, Sieber WK [2002]. Hearing protector use in noise-exposed workers: a retrospective look at 1983. *Am Indust Hyg Assoc J* 63:199–204.
4. Kozel PJ, Davis RR, Krieg EF, Shull GE, Erway LC [2002]. Deficiency in plasma membrane calcium ATPase Isoform 2 increases susceptibility to noise-induced hearing loss in mice. *Hearing Res* 164:231–239.
5. Davis RR, Newlander JK, Ling X-B, Cortopassi G, Krieg EF, Erway LC [2001]. Genetic basis for susceptibility to noise-induced hearing loss in mice. *Hearing Res* 155:82–90.

# JOHN R. FRANKS

<b>Title</b>	Senior Research Physical Scientist
<b>Discipline</b>	Audiology, hearing science, acoustics, noise control, experimental psychology, mechanical engineering
<b>Location</b>	Division of Applied Research and Technology Engineering and Physical Hazards Branch
<b>Address</b>	4676 Columbia Parkway Cincinnati, OH 45226
<b>Telephone</b>	513-533-8151
<b>NIOSH Employment</b>	3/15/1987

## Education

- B.A. Psychology, University of Missouri, 1967
- M.A. Audiology, Washington University, Central Institute for the Deaf, 1969
- Ph.D. Audiology, Purdue University, 1975
- M.S. Mechanical Engineering, Purdue University (awarded concurrent with Ph.D., Mechanical Engineering, Acoustics—minor)

## Research Interests

Acoustics of and effects of hearing protection devices on communication and environmental awareness, acoustics and noise control, surveillance of noise and hearing loss

## Memberships

- Acoustical Society of America
- National Hearing Conservation Association

## National Committee Assignments

- American National Standards Institute
- Representative to S3 (Bioacoustics) and S12 (Noise) committees
- Chair, Working Group S3/WG56 Criteria for Background Noise for Audiometric Testing
- Working Group S12/WG11 on Hearing Protector Measurement and Ratings

## Honors

- NHCA Threadgill Award, 1996
- ASA Fellow, 2000
- NIOSH Alice Hamilton Award, 2002
- NHCA Outstanding Hearing Conservationist, 2004

## Recent Publications

1. Kardous CA, Franks JR, Davis RR [2005]. NIOSH/NHCA Best-Practices Workshop on impulsive noise. *Noise Control Eng J* 53(2):54–60.
2. Murphy WJ, Franks JR, Berger EH, Behar A, Casali JG, Dixon-Ernst C, Krieg EF, Mozo BT, Royster JD, Royster LH, Simon SD, Stephenson C [2004]. Development of a new standard laboratory protocol for estimation of the field attenuation of hearing protection devices Sample size necessary to provide acceptable reproducibility. *J Acoust Soc Am* 115:311–323.
3. Franks JR, Murphy WJ, Harris DA, Johnson JL [2003]. Alternative field methods for measuring hearing protector performance. *AIHA J* 64(4):501–509.
4. Van Campen LE, Murphy WJ, Franks JR, Mathias PI, Toraason MA [2002]. Oxidative DNA damage is associated with intense noise exposure in the rat. *Hear Res* 164(1, 2):29–38.
5. Murphy, WJ, Franks, JR, Harris, DA, and Johnson, JL [2000]. Four protectors in search of a rating system. *Ear and Hearing* 21(3):167–178.
6. Murphy WJ, Franks JR, Krieg EF [2000]. Hearing protector attenuation models of attenuation distributions. *J Acoust Soc Am* 111(5):2109–2116.

## PAMELA S. GRAYDON

<b>Title</b>	Electronics Engineer
<b>Discipline</b>	Hearing loss prevention
<b>Location</b>	Division of Applied Research and Technology Engineering and Physical Hazards Branch
<b>Address</b>	4676 Columbia Parkway Cincinnati, OH 45226
<b>Telephone</b>	513-533-8582
<b>NIOSH Employment</b>	3/10/1990

### Education

- B.S. Elected Studies , Thomas More College, 1993
- B.S. Electronics Engineering Technology, Northern Kentucky University, 2003

### Research Interests

Personal protective equipment, field studies

### Memberships

- National Hearing Conservation Association
- Council for Accreditation in Occupational Hearing Conservation Certified
- Society for Women Engineers
- Golden Key International Honor Society

### Honors

National Hearing Conservation Association Golden Lobe Award, 2002

### Recent Publications

1. Graydon PS, Stephenson MR, Themann CL [2005]. Apprentice carpenter hearing levels from 1995 to 2003. Poster presentation at National Hearing Conservation Association Conference, Tucson, AZ.
2. Graydon PS [2004]. Stoplight for displaying and obtaining classroom noise levels. Presented at the IEEE Quarterly Dinner, Cincinnati, OH.
3. Franks JR, Graydon PS, Chen J [2003]. NIOSH compendium of hearing protector devices.

# RITA GUNER GURTUNCA

<b>Title</b>	Acting Laboratory Director
<b>Discipline</b>	Mining Engineer
<b>Location</b>	Pittsburgh Research Laboratory Office of the Director
<b>Address</b>	P.O. Box 18070, Cochrans Mill Road Pittsburgh, PA 15236
<b>Telephone</b>	412-386-6601
<b>NIOSH Employment</b>	05/10/2004

## **Education**

- BSc., Mining Engineering, Middle East Technical University, Turkey, 1976
- MSc., Mining Engineering, Ege University, Turkey, 1978
- Ph.D., Mining Engineering, University of New South Wales, Australia, 1984

## **Professional Certifications**

Chamber of Mines of South Africa Rock Mechanics Certificate, 1986

## **Research Interests**

Rock Mechanics, Backfill Technology, Numerical Modeling, Mining Safety and Health

## **Memberships**

- Member of the Society of Mining Engineers, Turkey
- Member of the Society of Mining Engineers, USA
- Member of the International Society of Rock Mechanics, (USA and South Africa)
- Fellow of South African Institute for Mining and Metallurgy

## **National Committee Assignments**

Vice-President for Africa, International Society of Rock Mechanics (1999-2003)

## **Honors**

- CSIR Outstanding Achiever Award, Knowledge Intensive Organization & Excellence in Transformation
- CSIR Outstanding Achiever Award, Excellence in Leadership
- Silver Medal by SAIMM

## **Recent Publications**

1. 50 publications in the areas of Rock Mechanics, Backfill Technology, Numerical Modeling, Mining Safety and Health.

2. Grtunca RG, Cashdollar KL, Volkwein JC, Rupprecht E [2004]. NIOSH Research in coal dust and explosions. In proceedings of the 13<sup>th</sup> International Conference on Coal Research. Beijing, China: pp. 179-186.
3. Grtunca RG [2003]. A Keynote address of Mining Research Work in South African and Important Findings. The 3<sup>rd</sup> Int. Symp. On Rock Stress. Kumamoto, Japan.
4. Grtunca RG [2003]. A keynote address of New Technologies for the Future. 18<sup>th</sup> Int. Mining Congress and Exhibition of Turkey, Antalya, Turkey.
5. Grtunca RG, Toper AZ, Squelch AP, Dlokweni T [2001]. Rock Engineering Criteria for Backfill in Ultra-Deep Level Mining Environments. 7<sup>th</sup> Int. Symp. On Mining with Backfill. MINEFIL 2001. Published by Society for Mining, Metallurgy and Exploration, USA.
6. Grtunca RG [2000]. A keynote address on Technology Development and Accessibility. Mining Summit. Mining for Sustainable Development and Job Creation: A Challenge for the African Century. Johannesburg, South Africa.
7. Grtunca RG [2000]. A keynote address on the South African Mining Industry in the New Millennium and Future Challenges. SACAM 2000 Int. Cong. On Applied Mechanics, Durban, South Africa.



# CHARLES S. HAYDEN II

Commander, U.S. Public Health Service

<b>Title</b>	Research Mechanical Engineer
<b>Discipline</b>	Acoustics, noise control, vibrations, mechanical engineering
<b>Location</b>	Division of Applied Research and Technology Engineering and Physical Hazards Branch
<b>Address</b>	4676 Columbia Parkway Cincinnati, OH 45226
<b>Telephone</b>	513-533-8152
<b>NIOSH Employment</b>	6/17/1991

## Education

- B.S. Mechanical Engineering, University of Cincinnati, 1991
- M.S. Mechanical Engineering, University of Cincinnati, 2000
- M.Eng. Acoustics, Penn State University (in process)

## Research Interests

Structural acoustics, acoustics and noise control

## Memberships

- Institute for Noise Control Engineering
- Acoustical Society of America
- American Society of Mechanical Engineers

## National Committee Assignments

- American National Standards Institute
- Member Working Group 41, S12 (Noise) committee on measurement of sound power level for electric and pneumatic powered hand tools

## Honors/Awards

- Engineering Literary Award, Applications, USPHS Engineers 1999, 2004
- Best Engineering Paper Award, American Industrial Hygiene Association, 1998
- U.S. Public Health Service Unit Commendation Medal 1994, 1999, 1999
- U.S. Public Health Service PHS Citation Medal 1997, 2002, 2005

## Recent Publications

1. Hayden CS II, Zechmann E [2005]. Use of existing standards to measure sound power levels of powered hand tools—necessary revisions. Proceedings of the NOISE-CON 2005, Minneapolis, MN.

2. Hayden CS II, Zechmann E, Verma R, Leonard S [2005]. Powered hand tools searchable Web site database.  
<http://www.cdc.gov/niosh/topics/noise/workplacesolutions/toolsDatabase.html>
3. Malkin R, Hudock SD, Hayden CS II, Lentz TJ, Topmiller J, Niemeier RW [2005]. An assessment of occupational safety and health hazards in selected small businesses manufacturing wood pallets. Part 1. Noise and physical hazards. *J Occup Environ Hyg*.
4. Zechmann E, Hayden CS II [2005]. Sound power measurement techniques for powered hand tools. Proceedings of the NOISE-CON 2005, Minneapolis, MN.
5. Hayden CS II [2004]. Noise: control of power tools used in the construction Industry—NIOSH/Universities Partnership Case Studies. Proceedings of the NOISE-CON 2004, Baltimore, MD.
6. Kulkarni P, Zhu X, Kim J, Hayden CS II [2004]. Time-frequency analysis of high-intensity, fast transient noise from power tools by analytical wavelet transform. Proceedings of the NOISE-CON 2004, Baltimore, MD.
7. Hayden CS II, Verma R, Leonard S [2003]. Student engineering teams' topic page for the NIOSH Web site.  
<http://www.cdc.gov/niosh/topics/noise/collegeStudents/studentpresentations.html>
8. Kardous C, Willson RD, Hayden CS II, Murphy WJ, Szlapa P, Reeves E [2003]. Noise exposure assessment and abatement strategies at an indoor firing range. *Appl Occup Environ Hyg J*, pp. 18629–18636.
9. Fouts BE, Kim J, Hayden CS II. [2002]. Characterization and reduction of noise generated by small industrial power tools. Proceedings of the 2002 Internoise Conference.
10. Hayden CS II, Davis R [2002]. Study protocol definition and evaluation of engineering noise controls in the construction industry. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

## ROBERTA L. HUDNAK

<b>Title</b>	Occupational Health Nurse Specialist
<b>Discipline</b>	Nursing care, employee health, hearing loss research & education
<b>Location</b>	Hearing Loss Prevention Branch Pittsburgh Research Laboratory
<b>Address</b>	P.O. Box 18070 626 Cochrans Mill Road Pittsburgh, PA 15236
<b>Telephone</b>	412-386-4599
<b>NIOSH Employment</b>	10/1/1996 (U.S. Bureau of Mines, 10/07/1986 to 09/30/1996)

### Education

- R.N. Diploma, McKeesport Hospital School of Nursing, 1972
- B.S. Health Services, Point Park College, 1998

### Research Interests

Human subject testing and education; design and evaluation of noise bookmark

### Certifications

- PA-RN License No.187102-L
- Occupational Hearing Conservationist (since 1975), recertification every 5 years
- CPR/AED, recertification every 2 years
- Certified Training of Worker's Compensation Specialist
- NIOSH Certified, Spirometry Testing
- Ethics Training Certificate No. 4206

### Memberships

- American Association of Occupational Health Nurses/Southwestern PA Region
- McKeesport Hospital Nurses Alumni Association
- Council for Accreditation in Occupational Hearing Conservation

### Honors

- Nominated for the Alice Hamilton Award, 2002
- NIOSH Award, MSHA Hazard Recognition Training-Taught CPR and First Aid, 2001
- MSHA Appreciation letter-Presentation (HPD's) at TRAM, 2001
- MSHA Academy, Appreciation letter, Audiometric testing for Refresher training, 1999
- NIOSH Appreciation letter, PRL Open House Presenter, 1998
- NIOSH Special Achievement Award (Nursing Care), 1996
- USBM, Outstanding Performance Award, 1994
- Certificate of Appreciation, (DOL/MSHA) Physicals consolidation, 1992
- Achievement Award, U.S. Bureau of Mines-Ergonomics Research, 1998

### Recent Publications

Randolph RF, Hudak RL, Vaught C [2003]. Communicating hearing loss information to young children. Effectiveness of lecture and printed materials. AAOHN J 51(10):433.

## DAVID K. INGRAM

<b>Title</b>	Physical Scientist, Acting Team Leader of the Interventions and Support Team
<b>Discipline</b>	Hearing Loss Prevention (Engineering Control) Geology Safety Hazards, Occupational Health and Safety
<b>Location</b>	Pittsburgh Research Laboratory Hearing Loss Prevention Branch
<b>Address</b>	P.O. Box 18070, Cochrans Mill Road Pittsburgh, PA 15236
<b>Telephone</b>	412-386-6547
<b>NIOSH employment</b>	10/1/1996 (U.S. Bureau of Mines from 12/28/1980 through 9/30/1996)

### Education

B.S. Geology, California University of Pennsylvania, 1980

### Professional Certifications

- Occupational Hearing Conservationist, Accredited by the Council for Accreditation in Occupational Hearing (CAOHC), Certificate No. 71911
- Professional Geologist, Commonwealth of Pennsylvania, Certificate No. PG-000051-G, 1993

### Research Interests

Occupational hearing loss (engineering controls), health and safety research, hazardous geologic conditions in U.S. mining industry

### Memberships

- National Ground Water Association
- Pittsburgh Geological Society
- Society of Mining Engineers

### Honors

NIOSH Outstanding Performance Award, 1999-2001

### Recent Publications

1. Bajpayee TS, Rehak TR, Mowrey GL, Ingram DK [2004]. Blasting injuries in surface mining with emphasis on flyrock and blast area security. *J Safety Res* 35(1):47-57.
2. Bajpayee TS, Bhatt SK, Rehak TR, Mowrey GL, Ingram DK [2003]. Fatal accidents due to flyrock and lack of blast area security and working practices in mining. *J Mines Metals Fuels Mining Indus Ann Rev* 51(11, 12):344-350.
3. Ingram DK, Matetic RJ [2003]. Are you operating an air-rotary drilling rig? Is it loud? *Water Well J*, July.

4. Bajpayee TS, Rehak TR, Mowrey GL, Ingram DK [2002]. A summary of fatal accidents due to flyrock and lack of blast area security in surface mining, 1989 to 1999. Proceedings of the 28th Annual Conference on Explosives and Blasting Technique, International Society of Explosives Engineers, Las Vegas, NV.
5. Matetic RJ, Ingram DK [2001]. Preventing high insurance premiums and on-the-job injuries. Water Well J, August, pp. 10–14.
6. Rehak TR, Bajpayee TS, Mowrey GL, Ingram DK [2001]. Flyrock issues in blasting. Proceedings of the 27th Annual Conference on Explosives and Blasting Technique, International Society of Explosives Engineering, Orlando, FL..
7. Ingram D., Matetic RJ [2000]. Cut costly insurance premiums and unnecessary OSHA violations. Water Conditioning and Purification, April, pp. 70–74.

## PAUL JUROVCIK, JR.

<b>Title</b>	General Engineer
<b>Discipline</b>	Occupational safety and health research related to hearing loss prevention, engineering noise control
<b>Location</b>	Pittsburgh Research Laboratory Hearing Loss Prevention Branch
<b>Address</b>	P.O. Box 18070, Cochrans Mill Road Pittsburgh, PA 15236
<b>Telephone</b>	412-386-4076
<b>NIOSH employment</b>	1/26/2003

### **Education**

B.S. Mechanical Engineering, The Pennsylvania State University, 1996

### **Research Interests**

Hearing loss prevention and engineering noise controls

### **Honors**

NIOSH Outstanding Performance Award, 2004

### **Recent Publications**

1. Yantek D, Jurovcik P, Bauer E [2005]. Noise and vibration reduction of a vibrating screen. SME Preprint No. 05-71, SME Conference, Salt Lake City, UT.
2. Fotta B, Jurovcik P, Reinke DC [2004]. Handheld computers to record workplace observations in real time. In: Abstracts of the American Industrial Hygiene Conference & Expo, Atlanta, GA, Fairfax, VA, AIHA, pp. 67-68.

# CHUCRI (CHUCK) A. KARDOUS

## Commander, U.S. Public Health Service

<b>Title</b>	Research Electrical Engineer
<b>Discipline</b>	Instrumentation, communication devices, impulsive noise, methods and measurements
<b>Location</b>	Division of Applied Research and Technology Engineering and Physical Hazards Branch
<b>Address</b>	4676 Columbia Parkway, C27 Cincinnati, OH 45226
<b>Telephone</b>	513-533-8146
<b>NIOSH Employment</b>	06/17/91

### Education

- B.S. Electrical Engineering, Wright State University, 1987
- M.S. Electrical Engineering, University of Cincinnati, 1991

### Research Interests

Communication systems, instrumentation, impulsive noise, risk assessments

### Memberships

- Society of American Military Engineers
- Institute of Noise Control Engineering
- Institute of Electrical and Electronic Engineers
- USPHS Engineer Professional Action Committee
- USPHS Associate Recruiter Program
- NIOSH Diversity Steering Council
- Commissioned Officers Association

### Honors

- USPHS Achievement Medal, 1998
- USPHS Citation, 2002
- USPHS Unit Commendations, 1996, 2000, 2004
- USPHS Engineering Literary Award, 2004
- Pan European Young Scientist Most Outstanding Paper
- U.S. Provisional Patent and International Patent, 2003-2004

### Recent Publications

1. Kardous CA [forthcoming]. New design concept for an impulse noise dosimeter. Appl Acous J.
2. Kardous CA [forthcoming]. Noise dosimeters. Ch 36. In: Crocker M, ed. Handbook of noise and vibration control. New York: John Wiley & Sons.
3. Kardous CA, Willson RD [2004]. Limitations of using dosimeters in impulse noise environments. J Occup Environ Hyg 1(7)456-462.

4. Kardous CA [2003]. New design concept for an impulse noise dosimeter. American Industrial Hygiene Conference, Dallas, TX.
5. Kardous CA, Morata T, Van Campen LE [2003]. An exploratory assessment of occupational and spectator noise exposures at stock car racing circuits. Submitted J Occup Environ Hyg.
6. Kardous CA, Murphy WJ, Willson RD [2003]. New design concept for an impulse noise dosimeter. National Hearing Conservation Association, Best Practices Workshop, Cincinnati, OH.
7. Kardous CA, Murphy WJ, Willson RD [2003]. Personal noise exposure assessment from small firearms. Acoustical Society of America Conference, April, Nashville, TN.
8. Kardous CA, Willson RD, Hayden II CS, Szlapa P, Murphy WJ, Reeves ER [2003]. Noise exposure assessment and abatement strategies at an indoor firing range. Appl Occup Environ Hyg 18(8)629–636.
9. Murphy WJ, Kardous CA [2003]. Attenuation measurements of passive linear and nonlinear hearing protectors for impulse noise. Acoustical Society of America Conference, April, Nashville, TN.
10. Van Campen LE, Morata T, Kardous CA [2003]. Ototoxic occupational exposures for a stock racing Team I. Noise. Submitted Appl Occup Environ Hyg J.
11. Schneider S, Spencer E, Babich DR, Healy T, Bailey C, Moir S, Kardous CA, Ogle T, Ringen K [2002]. Construction noise control in the 21st century. Proceedings of the 12th Annual Construction Safety and Health Conference. Rosemont, IL. Construction Safety Council, pp. 39–44.



## PETER G. KOVALCHIK

<b>Title</b>	General Engineer
<b>Discipline</b>	Occupational safety and health research related to hearing loss prevention, engineering noise control, cable ampacity, mine electrical power, and mine hoist safety
<b>Location</b>	Pittsburgh Research Laboratory Hearing Loss Prevention Branch
<b>Address</b>	Bldg. 155, Room 237 P.O. Box 18070, Cochrans Mill Road Pittsburgh, PA 15236
<b>Telephone</b>	412-386-6098
<b>NIOSH Employment</b>	10/1/1996 (U.S. Bureau of Mines, 2/26/1978 through 9/30/1996)

### Education

- A. D. Allegheny Technical Institute, 1972
- B. S. University of Pittsburgh, 1983

### Research Interests

Engineering noise control, hearing loss prevention, measurements and instrumentation for acoustics and vibrations

### National Committee Assignments

- Coal Noise Partnership Committee, 2000–present
- Subcommittee for Coal Noise Partnership, continuous mining machines, 2000–present
- Subcommittee for Coal Noise Partnership, roof bolting machines, 2000–present

### Honors

- NIOSH Outstanding Performance Award, 2000–2004
- Silver Award, Outstanding Professional Employee (Medical/Scientific Field), Federal Executive Board, 2003
- Nominated for the Alice Hamilton Award, 1999
- Invention Award, 1994
- Publication of the Year, Honorable Mention Technical Publication in a Peer-Reviewed/Referee Journal, 1993

### Recent Publications

1. Peterson JS, Kovalchik PG, Matetic RJ [2005]. NIOSH sound power level study of a roof bolter. SME Conference, Salt Lake City, UT.
2. Durr TM, Kovalchik P, Kwait ED [2003]. Evaluation of engineering noise controls for a continuous miner conveyor system SO NOISE-CON. Institute of Noise Control Engineering of the USA, Ames, IA.
3. Kovalchik P, Johnson M, Burdisso R, Duda F, Durr M [2002]. A noise control for continuous miners. 10th International Meeting on Low Frequency Noise and Vibration and its Control, York, England.

# RUDY J. MATETIC

<b>Title</b>	Supervisory General Engineer
<b>Disciplines</b>	Occupational safety and health research related to hearing loss prevention, machine hazards, ground control and rock mechanics
<b>Location</b>	Pittsburgh Research Laboratory Hearing Loss Prevention Branch
<b>Address</b>	Bldg. 155, Room 221 P.O. Box 18070, Cochrans Mill Road Pittsburgh, PA 15236
<b>Telephone</b>	412-386-6560
<b>NIOSH employment</b>	10/1/1996 (U.S. Bureau of Mines, 7/22/1984 through 9/30/1996)

## Education

- B. S. Mining Engineering, Pennsylvania State University, 1983
- M. S. Civil Engineering, University of Pittsburgh, 1992
- Ph.D. Candidate, Mining Engineering, West Virginia University, 2005 (expected graduation)

## Research Interests

Hearing loss prevention (noise control technology, acoustics, personal protective equipment, worker empowerment, speech/signal perception in noise), machine hazards, ground control and rock mechanics

## Memberships

- National Ground Water Association
- International Society of Rock Mechanics
- Society of Mining, Metallurgy and Exploration, Inc.

## National Committee Assignments

- Safety Subcommittee, National Ground Water Association, 2003-present
- Mining Engineering Magazine Committee, Society of Mining, Metallurgy and Exploration, Inc., 2004-present
- Committee, Engineering Controls, continuous mining machines, 2000-present
- Committee, Engineering Controls, for roof bolting machines, 2000-present
- Coal Noise Partnership Committee

## Honors

- Outstanding Performance Award, 1998-2005
- Special Achievement Award, developed a special roof control training class, 1998
- Silver-Outstanding Team Award, Federal Executive Board, 1997.
- Bureau of Mines Special Achievement Award for Excellent Performance, 1995
- Bureau of Mines Special Achievement Award, Outstanding Performance, National Ground Water Association-Honorarium Award, 1994
- Society of Mining Engineers-Young Engineer of the Year, Pittsburgh Section, 1993

- Society of Mining Engineers-National J.W. Woomer, distinguished contributions to the advancement of coal mining, 1993
- Pittsburgh Research Center, Innovator of the Year, 1992

#### **Recent Publications**

1. Peterson JS, Kovalchik PG, Matetic RJ [2005]. A sound power level study of a roof bolter. Pre-Print No. 05-72. Society of Mining, Metallurgy and Exploration, Inc.
2. Ingram DK, Matetic RJ [2003]. Are you operating an air-rotary drilling rig? Is it loud? Water Well J, July.
3. Matetic RJ, Ingram DK [2001]. Preventing high insurance premiums and on-the-job injuries. Water Well J, August, pp. 10-14.
4. Ingram DK, Matetic RJ [2000]. Cut costly insurance premiums and unnecessary OSHA violations. Water Conditioning and Purification, April, pp. 70-74.

## THAIS C. MORATA

<b>Title</b>	Research Audiologist
<b>Discipline</b>	Hearing loss prevention, risk evaluation, ototoxicity, epidemiology
<b>Location</b>	Division of Applied Research and Technology Engineering and Physical Hazards Branch
<b>Address</b>	4676 Columbia Parkway Cincinnati, OH 45226
<b>Telephone</b>	513-533-8487
<b>NIOSH Employment</b>	01/01/99

### Education

- B.S. Speech Pathology and Audiology, Pontifícia Universidade Católica, Brazil, 1982
- M.S. Communication Disorders, Pontifícia Universidade Católica, Brazil, 1986
- Ph.D. Communication Sciences and Disorders, University of Cincinnati, 1990

### Research Interests

Neurophysiology of audition, diagnosis of auditory pathology, the noxious effects of noise and chemical pollutants for purposes of developing hearing loss prevention strategies, interactions between ototraumatic agents, occupational and environmental health.

### Memberships

- National Hearing Conservation Association, 1988–present
- International Commission on Occupational Health, 2003–present
- International Society of Audiology, 2000–present
- International Society of Complex Environmental Studies, 1990–present
- International Neurotoxicology Association, 1989–present
- Brazilian Federal Council of Speech Pathology and Audiology, 1983–present
- Amnesty International, 2001–present
- Associate Editor, International Journal of Audiology
- Editorial Board of the journals, Noise and Health and Otorinolaryngologia.
- Ad Hoc Adviser, Pan American Health Organization, 1994–present.
- Ad Hoc Adviser, World Health Organization, 1997–present.

### Honors

- Distinguished Alumna Award, Department of Communication Sciences and Disorders, University of Cincinnati, 1993
- Postdoctoral Fellowship, National Research Council, 1994–1997
- Young Scientist Fellowship, International Neurotoxicology Association, 1989, 1991
- Field Study Research Grant, 1990
- Fellowships, Brazilian National Research Council, 1985, 1986 (M.S.);1987–1990 (Ph.D.)

## Recent Publications

1. Morata TC [2005]. Hearing disorders. In: Levy B, Wegman D. Occupational and environmental health recognizing and preventing disease and injury, 5th ed.
2. Morata TC [2004]. Ototoxicity an issue in hearing loss prevention in the workplace. Council for Accreditation on Occupational Hearing Conservation Update, 16(2)7–9.
3. Svensson EB, Morata TC, Nylén P, Krieg EF, Johnson AC [2004]. Beliefs and attitudes among Swedish workers regarding the risk of hearing loss. *Inter J Audiology* 43(10)585–593.
4. Costa EA, Morata TC, Kitamura S. [2003]. Work related ear pathology (in Portuguese Patologia do ouvido relacionada com o trabalho). In: Mendes R. Rene, Patologia do Trabalho. Editora Atheneu São Paulo, pp.1253–1282.
5. Morata TC [2003]. Chemical exposure as a risk factor for hearing loss. *J Occup Environ Med* 45(7):676–682.
6. Fernandes M, Morata TC [2002]. Auditory and extra auditory effects of occupational exposure to noise and vibration (in Portuguese). *Revista Brasileira de Otorrinolaringologia* 68(5)705–713.
7. Jacob L, Alvarenga K, Morata TC [2002]. The effects of occupational exposure to lead on the auditory system a review of the literature (in Portuguese). *Revista Brasileira de Otorrinolaringologia* 68(4) 564–9.
8. Morata TC [2002]. Interaction between noise and asphyxiants: a concern for toxicology and occupational health. *Toxicol Sci*, pp. 661–663.
9. Morata TC, Campo P [2002]. Ototoxic effects of styrene alone or in concert with other agents: a review. *Noise Health* 4(14):15–24(10).
10. Morata TC, Johnson AC, Nylén P, Svensson EB, Cheng J, Krieg EK, Lindblad AC, Ernstgård L, Franks J [2002]. Audiometric findings in workers exposed to low levels of styrene and noise. *J Occup Environ Med* 44(9):806–814.
11. Morata TC, Little MB [2002]. Suggested guidelines for studying the combined effects of occupational exposure to noise and chemicals on hearing. *Noise Health* 4(14):73–87.
12. Prasher D, Morata TC, Campo P, Fechter L, Johnson AC, Lund SP, Pawlas K, Starck J, Sliwiska Kowalska M, Sulkowski W [2002]. NoiseChem: a European Commission research project on the effects of exposure to noise and industrial chemicals on hearing and balance. *Noise Health* 4(14):41–48.
13. Teixeira CF, Giraldo da Silva Augusto L, Morata TC [2002]. Occupational exposure to insecticides and their effects on the auditory system. *Noise Health* 4(14):31–39(9).
14. Chouanière D, Demange V, Loquet G, Perrin P, Johnson A-C, Planeau V, Baudin V, Toamain J-P, Morata T [2001]. How to explore the otoneurotoxicity of solvents in the framework of epidemiological studies in the work environment (in French). *Otorhinolaryngologia Nova*, pp. 11134–11140.
15. Fischer FM, Morata TC, Latorre MR, Krieg EF, Fiorini AF, Colacioppo S, Gozzoli L, Padrão, MA, Zavariz C, Lieber R, Wallingford K, Cesar LC [2001]. Effects of environmental and organizational factors on the health of shiftworkers of a printing industry. *J Occup Environ Med* 43(10):882–889.
16. Henderson D, Morata TC, Hamernik R [2001]. Considerations on assessing the risk of work-related hearing loss. *Noise Health* 3(10):63–75.
17. Morata T [2001]. Industrial chemicals and tinnitus. *Tinnitus Today* 26(4):12.
18. Morata TC, Fiorini AC, Fischer FM, Krieg EF Gozzoli L, Colacioppo S [2001]. Factors affecting the use of hearing protectors in a population of printing workers. *Noise Health* 4(13):25–32.

**WILLIAM J. MURPHY**  
Commander, U.S. Public Health Service

<b>Title</b>	Co-Team Leader, Hearing Loss Prevention Team
<b>Discipline</b>	Hearing science, acoustics, noise control, otoacoustic emissions, signal processing, physics
<b>Location</b>	Division of Applied Research and Technology Engineering and Physical Hazards Branch
<b>Address</b>	4676 Columbia Parkway Cincinnati, OH 45226
<b>Telephone</b>	513-533-8125
<b>NIOSH Employment</b>	12/14/1992

**Education**

- B.S. Physics, Iowa State University, 1982
- M.S. Solid State Physics, Iowa State University, 1984
- Ph.D. Physics, Purdue University, 1992
- M.Eng. Acoustics, Penn State University, in process

**Research Interests**

Acoustics of hearing protection devices, acoustics and noise control

**Memberships**

Acoustical Society of America

**National Committee Assignments**

- American National Standards Institute
- Vice-Chair of S12 Committee on Noise
- Representative to S1 (Acoustics), S3 (Bioacoustics) and S12 (Noise) committees
- Chair, Working Group 14 on Nonlinear Hearing Protector Devices
- Working Group 11 on hearing protector measurement and ratings
- International Standards Organization, U.S. delegate team member (2003, 2005)
- Member of SC1 TC43 WG17 on Hearing Protectors
- Member of SC1 TC43 WG53 on Occupational Noise Exposure

**Honors**

- USPHS Literary award for publication in engineering, 2004
- NIOSH Alice Hamilton Award, 2002

**Recent Publications**

1. Davis RR, Murphy WJ [in press]. Effects of intense noise on people and hearing loss. In: Crocker M, ed. Handbook of noise and vibration control. New York: Wiley.

2. Kardous CA [2005]. NIOSH Alert occupational hazards for indoor firing ranges. DHHS-CDC-NIOSH, in peer review.
3. Kardous, CA, Murphy, WJ, Willson RD [2004]. New design concept for an impulse noise dosimeter. Submitted for review *Am Ind Hyg Assoc / J Occup Env Health*.
4. Murphy, WJ, Franks, JR, Berger, EH, Behar, A, Casali, JG, Dixon-Ernst, C, Krieg, EF, Mozo, BT, Royster, JD, Royster, LH, Simon, SD, Stephenson, C [2004]. Development of a new standard laboratory protocol for estimation of the field attenuation of hearing protection devices Sample size necessary to provide acceptable reproducibility. *J Acoust Soc Am* 115:311–323.
5. Franks, JR, Graydon, PS, Jeng, C, Murphy, WJ [2003]. NIOSH Hearing Protector Device Compendium. [http://www2d.cdc.gov/hp-devices/hp\\_srchpg01.asp](http://www2d.cdc.gov/hp-devices/hp_srchpg01.asp)
6. Franks, JR, Murphy, WJ, Harris, DA, Johnson, JL Shaw PB [2003]. Alternative field methods for measuring hearing protector performance. *Am Ind Hyg Assoc J* 64:501–509.
7. Kardous, CA, Willson, RD, Hayden, CS, Szlapa, P, Murphy, WJ, Reeves ER [2003]. Noise exposure assessment and abatement strategies at an indoor firing range. *Appl Occup Env Hyg* 18:629–636.
8. Tubbs, RL, Murphy, WJ [2003]. NIOSH Health Hazard Evaluation Report HETA No. 2002–0131–2898 Fort Collins Police Services, Fort Collins, Colorado. DHHS-CDC-NIOSH, March.
9. Davis RR, Murphy WJ, Snawder JF, Striley CAF, Henderson D, Khan A, Krieg EF [2002]. Susceptibility to the ototoxic properties of toluene is species specific. *Hear Res* 166:24–32.
10. Murphy WJ, Franks JR, Krieg EF [2002]. Hearing protector attenuation: models of attenuation distributions. *J Acoust Soc Am* 111:2109–2116.
11. Van Campen LE, Murphy WJ, Franks JR, Mathias PI, Toraason MA [2002]. Oxidative DNA damage is associated with intense noise exposure in rat. *Hear Res* 164:29–38.
12. Franks JR, Murphy, WJ, Johnson JL, Harris DA [2000]. Four earplugs in search of a rating system. *Ear and Hearing* 21:218–226.

## JEFFREY SHAWN PETERSON

<b>Title</b>	Electrical Engineer
<b>Discipline</b>	Occupational safety and health research related to hearing loss prevention, signal and data processing and analysis, noise control engineering
<b>Location</b>	Pittsburgh Research Laboratory Hearing Loss Prevention Branch
<b>Address</b>	P.O. Box 18070, Cochrans Mill Road Pittsburgh, PA 15236
<b>Telephone</b>	412-386-4995
<b>NIOSH Employment</b>	10/1/1996 (U.S. Bureau of Mines, 8/24/1987 through 9/30/1996)

### Education

- B.E. Electrical Engineering, Youngstown State University, 1987
- M.S. Electrical Engineering, University of Pittsburgh, 1998

### Research Interests

Noise control engineering, sound power testing, data collection and analysis.

### National Committee Assignments

Subcommittee for Coal Noise Partnership, 2004–present

### Honors

NIOSH Outstanding Performance Award, 2003

### Recent Publications

1. Peterson JS, Kovalchik PG, Matetic RJ [2005]. A sound power level study of a roof bolter. SME Conference, Salt Lake City, UT.
2. Peterson JS [2003]. NIOSH, design and instrumentation of a large reverberation chamber. NoiseCon Conference, Cleveland, OH.
3. Yenchek MR, Cawley JC, Brautigam A, Peterson JS [2000]. Distinguishing motor starts from short circuits through phase-angle measurements, 2000 IEEE–IAS Transactions.
4. Peterson JS, Cole G [1997]. NIOSH, electrical fault detection on downed dc trolley lines. SME Conference, Denver, CO.



## ROBERT F. RANDOLPH

<b>Title</b>	Research Psychologist
<b>Discipline</b>	Industrial and organizational psychology
<b>Location</b>	Pittsburgh Research Laboratory Hearing Loss Prevention Branch
<b>Address</b>	P.O. Box 18070, Cochrans Mill Road Pittsburgh, PA 15236
<b>Telephone</b>	412-386-4660
<b>NIOSH Employment</b>	10/1/1996 (U.S. Bureau of Mines, 3/30/1986 through 9/30/2006)

### Education

- M.S. Organizational Behavior and Theory, Carnegie Mellon University, 1983
- B.A. Psychology, Washington University, 1980

### Professional Certifications

Certified Occupational Hearing Conservationist, Council for Accreditation in Occupational Hearing Conservation, 2000

### Research Interests

Health communications, human factors and ergonomics, work team organization

### Memberships

- Joseph A. Holmes Safety Association
- Council for Accreditation in Occupational Hearing Conservation

### National Committee Assignments

- Executive Committee, Joseph A. Holmes Safety Association, 1995–present
- Coal Noise Partnership Committee, 2000–present

### Honors

- NIOSH Outstanding Performance Award, 2004, 2005
- Nominated for the Alice Hamilton Award, 2004
- Bronze Award, Outstanding Professional Employee from the Federal Executive Board, Pittsburgh, 1998
- Holmes Safety Association, Man of the Year Award for contributions to mining safety and health, 1996
- USBM Outstanding Performance Award, 1990, 1991, 1992, 1993, 1996
- Publication of the Year, A Statistical Profile of Groundfall Injuries, Proceedings of the Bureau of Mines Groundfall Technology Transfer Seminar, 1992

## Recent Publications

1. Randolph RF, Hudak RL, Vaught C [2003]. Communicating hearing loss information to young children Effectiveness of lecture and printed materials. *AAOHN J* 51(10):433.
2. Randolph RF, Kohler JL, Byrne DC [2002]. Communicating the same message with different media: an example from hearing loss prevention. In: Peters, RH, ed. *Strategies for improving miners' training*. Cincinnati, OH U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2002-156.

## EFREM RAY REEVES

<b>Title</b>	General Engineer
<b>Discipline</b>	Acoustics
<b>Location</b>	Pittsburgh Research Laboratory Hearing Loss Prevention Branch
<b>Address</b>	P.O. Box 18070, Cochrans Mill Road Pittsburgh, PA 15236
<b>Telephone</b>	412-386-6158
<b>NIOSH Employment</b>	8/14/2000

### Education

- B.S. Electrical Engineering, Prairie View A&M University of Texas, 1992
- M.S. Electrical Engineering, University of Illinois at Urbana-Champaign, 1994
- Ph.D. Acoustics, The Pennsylvania State University, 1998

### Research Interests

Speech/signal perception in noise, hearing protection, noise control

### Memberships

Acoustical Society of America

### National Committee Assignments

Coal Noise Partnership Committee, 2000–present

### Recent Publications

1. Bauer E, Podobinski D, Reeves E, Vipperman J [2005]. Noise exposure in longwall mining and engineering controls research. Proceedings of the Longwall USA International Exposition and Conference, Pittsburgh, PA.
2. Bauer ER, Reeves ER, Durr TM, Zuchelli DR, Armour D [2005]. Testing and evaluation of an engineering noise control on a longwall stageloader. Preprint 05-58 SME Conference Proceedings, Salt Lake City, UT.
3. Reeves ER [2005]. Assessment of noise controls commonly used on jumbo drills and bolters in Western United States underground metal mines. *Mining Eng* 57(1):41-47.
4. Reeves ER [2004]. Assessment of noise controls commonly used on jumbo drills and bolters in Western underground metal mines. Preprint 04-112 SME Conference Proceedings, Denver, CO.
5. Kardous CA, Willson RD, Hayden CH, Szlapa P, Murphy WJ, Reeves ER [2003]. Noise exposure assessment and abatement strategies at an indoor firing range. *Appl Occup Environ Hyg J* 18:29-636.

## DANA COLLEEN REINKE

<b>Title</b>	Sociologist
<b>Discipline</b>	Social-behavioral aspects of occupational safety and health research as part of hearing loss prevention research agenda
<b>Location</b>	Pittsburgh Research Laboratory Hearing Loss Prevention Branch
<b>Address</b>	P.O. Box 18070, Cochrans Mill Road Pittsburgh, PA 15236
<b>Telephone</b>	412-386-6673
<b>NIOSH Employment</b>	5/21/2000

### Education

- A.B.D. Doctoral Candidate, Sociology, University of Pittsburgh, 2004
- M.A. Sociology, University of Pittsburgh, 2001
- B.A. Sociology and Organizational Communication, Alma College, 1999

### Research Interests

Socio-behavioral aspects of occupational health and safety, qualitative research methodologies, training and intervention research

### Memberships

- American Sociological Association
- North Central Sociological Association

### Honors

- NIOSH Outstanding Performance Award, 2001, 2002, 2004
- Excellence in Graduate Student Research, Department of Sociology, University of Pittsburgh, 2003
- Excellence in Teaching Award, Graduate Teaching Fellow, Department of Sociology, University of Pittsburgh, 2002
- NIOSH Alice Hamilton Award, Educational Materials Category, 2002
- Outstanding Team Award, Pittsburgh FEB Excellence in Government Award, 2001
- CDC/ATSDR Honor Award Team Award, Information Services Category, 2001

### Recent Publications

1. Kowalski-Trakofler K, Vaught C, Mallett L, Brnich M, Reinke D, Steiner L, Wiehagen W, Rethi L [2004]. Safety and health training for an evolving workforce an overview from the mining industry. NIOSH IC 9474.
2. Vaught C, Reinke D [2004]. Some specific aspects of mine emergencies that affect responses. In: Vaught C, Brnich M, Mallett L. An oral history analysis of mine emergency response. NIOSH IC 9471.

3. Brnich M, Mallet L, Reinke D, Vaught C [2002]. Mine emergency response command center training, using computer simulation. Proceedings of the 33rd Annual Institute of Mining Health, Safety, and Research, Roanoke, VA.
4. Mallet L, Reinke D [2002]. An overview of evaluation for mine trainers. IC 9463. Strategies for improving miners' training.
5. Mallet L, Reinke D, Brnich, M [2002]. Getting through to greenhorns do old training styles work with new miners? IC 9463. Strategies for improving miners' training.
6. Reinke D, Eppley D [2002]. Pennsylvania incorporates innovative programs into mine rescue training. HOLMES Safety Association Bulletin.
7. Reinke D, Mallet L [2002]. Evaluation process and tools. Proceedings of the 33rd Annual Institute of Mining Health, Safety, and Research, Roanoke, VA.

## ELLSWORTH R. SPENCER

<b>Title</b>	Mining Engineer
<b>Discipline</b>	Occupational safety and health research related to hearing loss prevention, engineering noise control, and respirable dust control
<b>Location</b>	Pittsburgh Research Laboratory Hearing Loss Prevention Branch
<b>Address</b>	P.O. Box 18070, Cochrans Mill Road Pittsburgh, PA 15236
<b>Telephone</b>	412-386-6831
<b>NIOSH Employment</b>	10/01/1996 (U.S. Bureau of Mines, 1/04/1981 through 9/30/1996)

### Education

- A.S. Engineering Computer Science, WACC, Williamsport PA, 1971
- B.S. Agriculture/Business Management, Pennsylvania State University, 1979
- M.E.R. Master of Energy Resources, University of Pittsburgh, 1984

### Research Interests

Occupational noise control, measurements and instrumentation for acoustics and vibrations  
respirable dust control and continuous dust control parameters monitoring system

### Honors

- Special Achievement Award, Team Leader, Dust Survey, 1991
- Special Act Service Award, 1988-1990
- Special Achievement Award, Safety Subcommittee, 1983
- Commendation, Lake Lynn Lab Open House briefing, 1982

### Recent Publications

1. Vipperman JS, Bauer ER, Spencer ER, Babich DR [2001]. Survey and assessment of noise in coal preparation facilities [Abstract]. J ASA, 142nd Meeting of the Acoustical Society of America, Fort Lauderdale, FL.
2. Vipperman JF, Bauer ER, Spencer ER, [2000]. Noise survey and control in a coal preparation plant. Presented at the American Society of Mechanical Engineers Conference, Orlando, FL, November 5-9.

## CAROL M. STEPHENSON

<b>Title</b>	Supervisory Health Scientist, Branch Chief
<b>Discipline</b>	Social psychology, health communication, education and training, program evaluation
<b>Location</b>	Education and Information Division Training Research and Evaluation Branch
<b>Address</b>	4676 Columbia Parkway Cincinnati, OH 45226
<b>Telephone</b>	513-533-8581
<b>NIOSH Employment</b>	1986-present

### Education

- Diploma Program Veterinary Technology, Medical Institute of Minnesota/University of Minnesota, 1974
- A.S. Biology, Union College, 1976
- B.S./B.A. Biology/Psychology, Edgecliff College of Xavier University, 1981
- M.A. Experimental Psychology, Xavier University, Cincinnati, OH 1992
- Ph.D. Summa cum Laude, Applied Social Psychology, Miami University, 1995

### Current Licensure/Professional Certification

State of Ohio, Veterinary Technician, emphasis area training and behavioral interventions

### Research Interests

Education and training effectiveness, social marketing, health communication and health promotion theory, diffusion of innovation, occupational hearing loss prevention specifically with regard to improving hearing loss prevention program elements related to education, training, and motivation, cognitive-behavioral approaches that impact decision makers, program evaluation

### Memberships

- American Psychological Association
- American Psychological Society
- National Hearing Conservation Association; current liaison to OSHA Alliance program
- American Evaluation Association
- Sigma Xi Scientific Research Society
- Society of Veterinary Behavior Technicians, North American Veterinary Technicians Association, Ohio Association of Animal Technicians, Association of Pet Dog Trainers
- Ohio USDA Emergency Response Team; Animal Behavior Specialist

### National Committee Assignments

- NIOSH NORA hearing loss prevention team member, from inception to present
- NIOSH NORA II Small Business Program Coordinator, 2005-present
- American Academy of Audiology, Task Force on Hearing Conservation
- NHCA/OSHA/NIOSH Hearing Loss Prevention Alliance, coordinator

- CDC Futures Initiative Stakeholders and Partners subgroup and the Places subgroup (Schools)
- CDC Adolescent Educational Web Portal working group
- WHO Educational Gateway Web Portal working group
- Federal Interagency Working Group on Young Worker Safety and Health (Fednet)
- NIOSH/NIDCD Wise Ears community outreach program

### **Honors**

- NIOSH merit performance awards 1989–1991, 1993, 1996–2004
- Cincinnati Psychological Association Graduate Student Research Prize, 1995
- Outstanding Scientific Lecturer Award, National Hearing Conservation Association, 1996, 2000
- Aegis Award, 1998
- Competitively selected NIOSH/CDC long-term training in social psychology, 1992
- NIOSH/ PAEB/ Bioacoustics section employee of the year, 1989

### **Recent Publications**

1. Schulte PA, Stephenson CM, Okun AH, Palassis J, Biddle E [2005]. Integrating occupational safety and health information into vocational and technical education and other workforce preparation programs. *Am J Pub Health* 95(3):404–411.
2. Prince MM, Colligan MJ, Stephenson CM, Bischoff BJ [2004]. The contribution of focus groups in the evaluation of hearing conservation program effectiveness. *J Safety Res* 35: 91–106.
3. Stephenson, MR, Stephenson CM [2004]. Preventing occupational hearing loss; they're your ears. Multimedia CD-ROM.
4. Schulte PA, Okun A, Stephenson CM, Colligan M, Ahlers H, Gjessing C, Loos G, Niemeier RW, Sweeney MH [2003]. Information dissemination and use critical components in occupational safety and health. *Am J Ind Med* 44(5):515–531.
5. Stephenson MR, Berger, EH, Hager LD, Johnson DL, Lankford JE, Meinke DK, Nadler NB, Ohlin D, Stephenson CM [2003] American Academy of Audiology Position Statement: Preventing occupational noise-induced hearing loss. American Academy of Audiology, Reston,VA.
6. Merry CJ [2001]. Why training needs change. Proceedings of the Best Practices in Construction Conference, Detroit, MI. DHHS (NIOSH) Pub. No. 2001–157.
7. Sweeney MH, Fosbroke D, Goldenhar LM, Jackson LL, Linch K, Lushniak BD, Merry CJ, Schneider S, Stephenson MR [2000]. Health consequences of working in construction. In: Rinker ME, ed. Senior lecture series. New York: Taylor and Francis, p.211–234.



## MARK R. STEPHENSON

<b>Title</b>	Senior Research Audiologist
<b>Discipline</b>	Bioacoustics and audiology, hearing loss prevention
<b>Location</b>	Division of Applied Research and Technology Engineering and Physical Hazards Branch
<b>Address</b>	4676 Columbia Parkway, C-27 Cincinnati, OH 45226
<b>Telephone</b>	513-533-8144
<b>NIOSH Employment</b>	1993

### Education

- B.S. Audiology, Southern Illinois University, 1972
- M.S. Audiology, Southern Illinois University, 1973
- Ph.D. Bioacoustics, The Ohio State University, 1986

### Professional Certification

- State of Ohio, Audiology, License No. A-159
- American Speech-Language-Hearing Association Certificate of Clinical Competence in \
- Audiology, 1990
- Board Certification, American Board of Audiology, 2003

### Research Interests

Mechanisms and risks associated with hazardous noise; occupational hearing loss prevention, improving communication in noise, hearing conservation program evaluation, health communication/education and training

### Memberships

- American Academy of Audiology, Fellow
- American Speech-Language-Hearing Association
- National Hearing Conservation Association, 1999 to present.
- Acoustical Society of America
- Air Force Audiology Association, 1991-1993
- Military Audiology Association through 1993

### National Committee Assignments

- NIOSH NORA hearing loss prevention team member from inception to present
- NIOSH NORA II Hearing Loss Prevention Program Coordinator, 2005 to present
- National Academy of Sciences/Institute of Medicine Committee on Noise Induced Hearing Loss and Tinnitus Among Military Veterans from World War II, 2003-present
- American National Standards Institute Accredited Committees S12-Noise, Bioacoustics, 2004-present

- Acoustical Society of America Working Group S3–62 Effects of Impulse Noise on Hearing; Technical Committee on Psychological and Physiological Acoustics; Technical Committee on Noise
- Council for Accreditation in Occupational Hearing Conservation Board member, 2003–present; Associate Editor *Update*, 2003–present
- American Academy of Audiology Chair, Task force on Hearing Conservation
- Consultant for Audiology research to the USAF Surgeon General, 1989–1993
- Chief Consultant, USAF Biomedical Specialists to USAF Surgeon General, 1991–1993

### **Honors**

- American Academy of Audiology, Special Award of Recognition 2005
- National Hearing Conservation Association Media, 2003
- Outstanding Scientific Lecturer, National Hearing Conservation Association, 2000
- Aegis Award, 1998
- USAF Meritorious Service Medals 1981, 1991, 1993
- United States Air Force Audiologist of the Year, 1990
- USAF Commendation Medals 1980, 1986
- Company Grade Officer of the Year, AF Aerospace Medical Research Laboratory, 1978

### **Recent Publications**

1. Stephenson MR [2005]. Noise-induced hearing loss. In: Weeks JL, ed. Preventing occupational disease and injury. American Public Health Association.
2. Landen D, Wilkins S, Stephenson M [2004]. Noise exposure and hearing loss among sand and gravel miners. *J Occup Environ Hyg*.
3. Stephenson MR, Themann CL, Murphy WG [2004]. Thoughts on the noise notch and the importance of testing 8 kHz. *Update* 163.
4. Stephenson MR, Berger EH, Hager LD, Johnson DL, Lankford JE, Meinke DK, Nadler NB, Ohlin D, Stephenson CM [2003]. American Academy of Audiology position statement preventing occupational noise-induced hearing loss. American Academy of Audiology, Reston, VA.
5. Stephenson MR, Reilly MJ, Rosenman KD [2002]. Showcase on preventing occupational noise-induced hearing loss. National Institute for Occupational Safety and Health best practices for hearing loss prevention, issues and answers. *Now Hear This* 5(1) Spring.
6. Stephenson MR [2000]. Choose the hearing protector that's right for you. *Safe Worker*, NSC.

## CHRISTA L. THEMANN

<b>Title</b>	Audiologist
<b>Discipline</b>	Hearing loss prevention; epidemiology of hearing loss
<b>Location</b>	Engineering and Physical Hazards Branch Division of Applied Research Technology
<b>Address</b>	4676 Columbia Parkway Cincinnati, OH 45226
<b>Telephone</b>	513-533-8485
<b>NIOSH Employment</b>	1990-1994 and 1997-present

### Education

- B.S. Communication Disorders, University of Cincinnati, 1987
- M.A. Audiology, University of Cincinnati, 1989
- Certificate in Public Health, Johns Hopkins University, 2000

### Research Interests

Epidemiology of noise exposure and hearing loss, establishment of surveillance programs, development of effective hearing conservation strategies, special needs of workers with hearing loss and the definition of hearing critical jobs

### Memberships

- National Hearing Conservation Association
- International Society of Audiology
- Acoustical Society of America, Cincinnati Chapter

### National Committee Assignments

Assistant editor, *Audinews*, International Society of Audiology

### Honors

- US Public Health Service Achievement Medal, 2003
- US Public Health Service Commendation Medal, 2000
- National Center for Health Statistics Director's Award for Mission Support, 1999
- Phi Beta Kappa, elected 1987

### Publications

Morata TC, Themann CL, Randolph RF, Verbsky BL, Byrne DC, Reeves ER [in press]. Attitudes and beliefs about hearing loss prevention among workers with self-reported hearing difficulties. *Ear and Hearing*.

## EDWARD D. THIMONS

<b>Title</b>	Branch Chief, Respiratory Hazards Control Branch
<b>Discipline</b> ventilation	Dust control and monitoring, noise control, methane control,
<b>Location</b>	Pittsburgh Research Laboratory Respiratory Hazards Control Branch
<b>Address</b>	P.O. Box 18070, Cochrans Mill Road Pittsburgh, PA 15236
<b>Telephone</b>	412-386-6683
<b>NIOSH Employment</b>	10/1/96 (U. S. Bureau of Mines, 1969)

### Education

- B.S. Physics, Duquesne University, 1969
- M.S. Civil Engineering, University of Pittsburgh, 1974

### Research Interests

Dust control and monitoring, methane control and monitoring, mine ventilation, noise control

### Memberships

- Society of Mining Engineers (Underground Ventilation Committee)
- Underground Technology Research Council
- National Stone Association Safety and Health Committee and Noise Task Force
- U.S. Water Jet Society

### National Committee Assignments

- U.S. North American Mine Ventilation Conference, Organizing Committee for 2006
- Consulted in South Africa on synergy between HIV, TB, and silicosis in miners, 1999
- Consulted and taught mining health and safety course for Mexican government, 1998
- Consulted in Chile on health and safety issues for CODELCO Copper, 1997
- Consulted in Saudia Arabia on dust problems at mines and aggregate plants, 1994

### Honors

- Co-recipient, R&D 100 Award for Personal Dust Monitor, 2004
- NIOSH Special Award for developing world class mining diesel research team, 2004
- Michigan Industrial Hygiene Association, Best Paper of the Year Award, 2001
- Mine Ventilation Society of SA Colliery Manager's Prize, peer reviewed article, 1998
- IR 100 Award from Industrial Research Magazine, 1997

### Recent Publications

1. L Murray-Johnson, KR Witte, DH Patel, CE Zuckermann, AM Maxfield, S Meadows-Hogan, JA Tisdale, ED Thimons [2004]. Hearing loss and hearing protection messages using the

- extended parallel process model to prevent noise-induced hearing loss among coal miners in Appalachia. *J Health Educ Behavior* 31(6):741–755.
2. Personal dust monitor, empowering the worker [2004]. *International Longwall News*, February.
  3. Thimons ED [2004]. Toward common goals. *Longwall News*, March 12.
  4. Volkwein JC, Thimons ED, Yanak C, Dunham D, Patashnick H, Rupprecht E [2004]. Implementing a new personal dust monitor as an engineering tool. *Coal Age* 9(12):26–29.
  5. Organiscak JA, Cecala AB, Thimons ED, Heitbrink WA, Shultz M, Ahrenholtz E [2003]. NIOSH/industry collaborative efforts show improved mining equipment cab dust protection. *Transactions of Society of Mining Engineers* 314:145–152.
  6. Taylor CDE, Thimons ED, Zimmer ED [2003]. Factors affecting the location of methanometers on mining equipment. *Mine Ventil SA J* 56(1):6–10
  7. Taylor CD, Timko RJ, Zimmer JA, Thimons ED [2003]. Safety concerns associated with the use of electrically powered haulage to remove workers from mines during main fan stoppages. *Mine Ventil J South Afr* 56(1):25–29.
  8. Cecala AB, Organiscak AB, Page SJ, Thimons ED [2002]. Reducing silica exposures in aggregate operations. *Aggregates Manager*, January, pp. 24–28.
  9. Patel DS, Witte KR, Zukerman CE, Murray-Johnson L, Maxfield AM, Meadows-Hogan S, Tisdale JA, Thimons ED [2001]. The barriers to action model (BAM). Understanding barriers to preventive health actions for occupational noise-induced hearing loss. *J Health Comm* 6:155–168.
  10. Rider JP, Colinet JF, Chekan GJ, Listak JM, Thimons ED [2001]. Longwall dust control issues and possible solutions. *Proceedings of the Longwall USA Conference*, Pittsburgh, PA.
  11. Cecala AB, Timko RJ, Thimons ED [2000]. Methods to lower the dust exposure of bag machine operators and bag stackers. *Appl Occup Environ Hyg J* 15(10).
  12. Goodman GVR, Taylor CD, Colinet JF, Thimons ED [2000]. NIOSH Research for controlling respirable dust and methane gas on continuous miner faces. *Proceedings of the Conference on Coal Research*, Johannesburg, SA, Symposium Series S26, pp. 151–155.

## RANDY L. TUBBS

Captain, U.S. Public Health Service

<b>Title</b>	Psychoacoustician
<b>Discipline</b>	Hearing science, acoustics, noise measurement, psychoacoustics
<b>Location</b>	Hazard Evaluation and Technical Assistance Branch Division of Surveillance, Hazard Evaluation and Field Studies
<b>Address</b>	4676 Columbia Parkway Cincinnati, OH 45226
<b>Telephone</b>	513-841-4569
<b>NIOSH Employment</b>	3/13/1978

### Education

- A.B. Psychology, University of Michigan-Flint, 1972
- M.A. Experimental Psychology, Miami University, 1976
- Ph.D. Experimental Psychology, Miami University, 1982

### Research Interests

Hazard evaluations of occupational noise and vibration, acoustics and noise control

### Memberships

- Acoustical Society of America
- National Hearing Conservation Association
- American Conference of Governmental Industrial Hygienists

### Honors

- The Public Health Service Commissioned Corps Outstanding Unit Citation, 2005
- National Center for Infectious Diseases Honor Award, 2004
- The Public Health Service Commissioned Corps Outstanding Unit Citation, 2002
- The ACGIH Meritorious Achievement Award, 2002
- The Public Health Service Crisis Response Service Award, 2002
- The Public Health Service Commissioned Corps Outstanding Service Medal, 1996
- The Public Health Service Commissioned Corps Unit Commendation, 1994
- The Public Health Service Commissioned Corps Achievement Medal, 1989
- The Public Health Service Commissioned Corps Citation, 1982, 1989

### Recent Publications

1. Morata TC, Themann CL, Randolph RF, Verbsky BL, Byrne DC, Reeves ER [in press]. Attitudes and beliefs about hearing loss prevention among workers with self-reported hearing difficulties. *Ear and Hearing*.
2. Harney J, King B, Tubbs RL, Crouch K, Hayden C, Kardous C, Khan A, Mickelsen L, Willson R [2005]. Health hazard evaluation Immigration and Naturalization Service, National Firearms

- Unit, Altoona, PA. HETA Report No. 2000–0191–2960. Cincinnati, OH: National Institute for Occupational Safety and Health.
3. Methner M, Delaney LJ, Tubbs RL [2005]. Health hazard evaluation summary report Air contaminant and noise exposures among Transportation Security Administration (TSA) baggage screeners at four international airports. HETA Report No. 2005–0091–2957. Cincinnati, OH: National Institute for Occupational Safety and Health.
  4. Methner M, Delaney LJ, Tubbs RL [2005]. Health hazard evaluation Transportation Security Administration, Baltimore-Washington International Airport (BWI), Linthicum, MD. HETA Report No. 2004–0101–2953. Cincinnati, OH: National Institute for Occupational Safety and Health.
  5. Tubbs RL [2005]. Health hazard evaluation Meijer, East Lansing, MI. HETA Report No. 2005–0140–2963. Cincinnati OH: National Institute for Occupational Safety and Health.
  6. Achutan C, Tubbs RL [2004]. Health hazard evaluation Kirkwood Community College, Cedar Rapids, IO. HETA Report No. 2004–0046–2950. Cincinnati, OH: National Institute for Occupational Safety and Health.
  7. Achutan C, Tubbs RL, Habes DJ [2004]. Health hazard evaluation Navajo Agricultural Products Industry, Farmington, NM. HETA Report No. 2004–0014–2929. Cincinnati, OH: National Institute for Occupational Safety and Health.
  8. Delaney LJ, Methner M, Tubbs RL [2004]. Health hazard evaluation Transportation Security Administration, Palm Beach International Airport, West Palm Beach, FL. HETA Report No. 2004–0130–2945. Cincinnati, OH: National Institute for Occupational Safety and Health.
  9. Habes DJ, Tubbs RL, Husting EL [2004]. Health hazard evaluation United States Postal Service, Norman, OK. HETA Report No. 2002–0239–2922. Cincinnati, OH: National Institute for Occupational Safety and Health.
  10. Methner M, Delaney LJ, Tubbs RL [2004]. Health hazard evaluation Transportation Security Administration, Washington-Dulles International Airport, Dulles, VA. HETA Report No. 2004–0100–2946. Cincinnati, OH: National Institute for Occupational Safety and Health.
  11. Tubbs RL [2004]. Health hazard evaluation Horizon Tubbs RL. Health hazard evaluation Transportation Security Administration, Miami International Airport, Miami, FL. HETA Report No. 2004–0146–2947. Cincinnati, OH: National Institute for Occupational Safety and Health.
  12. Tubbs RL [2004]. Health hazard evaluation Spirit Mountain Casino, Grand Ronde, OR. HETA Report No. 2003–0157–2934. Cincinnati, OH: National Institute for Occupational Safety and Health.
  13. Tubbs RL [2004]. Time-weighted averages and fire Air, Seattle, WA. HETA Report No. 2003–0094–2931. Cincinnati, OH: National Institute for Occupational Safety and Health.
  14. Habes DJ, Dick R, Tubbs RL, Biggs F, Burt S [2003]. An ergonomic evaluation of snowmobiles. In: Tharr DG, ed. Case studies. *Appl Occup Environ Hyg* 18(4):213–225.
  15. Tubbs RL [2003]. Health hazard evaluation Utah Department of Public Safety–Utah Highway Patrol, Salt Lake City, UT. HETA Report No. 2003–0094–2919. Cincinnati, OH: National Institute for Occupational Safety and Health.
  16. Delaney LJ, Methner M, fighter hearing-loss. *CAOHC Update* 16:(2).

## ROHIT VERMA

<b>Title</b>	Technical Information Specialist
<b>Discipline</b>	Technical and health communication, training research and evaluation
<b>Location</b>	Education and Information Division Training Research and Evaluation Branch
<b>Address</b>	4676 Columbia Parkway Cincinnati, OH 45226
<b>Telephone</b>	513-533-8251
<b>NIOSH Employment</b>	06/15/2002

### Education

- B.S. Communication, University of Colorado, 1997
- M.S. Public Health, University of Colorado Health Sciences Center, 1999
- M.S. Technical Communications, University of Colorado, 2002

### Research Interests

Impact of electronic information on health risk perception, web usability and evaluation

### Memberships

- Society for Technical Communication
- Network of Indian Professionals

### Honors

- NIOSH Excellence Award for NIOSH Online Tools Database
- NIOSH Excellence Award for EID Intranet



## DAVID S. YANTEK

<b>Title</b>	Mechanical Engineer
<b>Discipline</b>	Noise control
<b>Location</b>	Pittsburgh Research Laboratory Hearing Loss Prevention Branch
<b>Address</b>	Bldg. 155, Room 32 P.O. Box 18070, Cochrans Mill Road Pittsburgh, PA 15236
<b>Telephone</b>	412-386-4498
<b>NIOSH Employment</b>	09/12/2001

### Education

- B.S. Mechanical Engineering, Penn State University, 1995
- M.S. Mechanical Engineering, Penn State University, 1996

### Research Interests

Noise control

### National Committee Assignments

Coal Noise Partnership Committee, 2001–present

### Recent Publications

1. Yantek D, Jurovcik P, Bauer E. [2005]. Noise and vibration reduction of a vibrating screen. SME Preprint 05-71, February/March.
2. Yantek D [2003]. Estimated sound power radiated by surfaces on a continuous miner tail section using vibration measurements. Proc Noise Con 2003, June.

## EDWARD L. ZECHMANN

<b>Title</b>	Scientific Data Analyst
<b>Discipline</b>	Noise and vibrations control, programming for noise and vibrations measurements
<b>Location</b>	Division of Applied Research and Technology Engineering and Physical Hazards Branch
<b>Address</b>	4674 Columbia Parkway Cincinnati, OH 45226
<b>Telephone</b>	513-533-8115
<b>NIOSH Employment</b>	Constella Contractor working with NIOSH since 6/22/2004

### Education

- M.S. Acoustics, Penn State University, 2004–present
- M.S. Engineering Mechanics, Iowa State University, 2002
- B.S. Mechanical Engineering, University of Nebraska-Lincoln, 2000

### Research Interests

Noise control and human exposure to vibrations, programming in labview for data acquisition and analysis

### Memberships

- Acoustical Society of America
- Institute of Noise Control Engineers
- American Society of Heating, Refrigerating, and Air Conditioning Engineers

### National Committee Assignments

Product Noise Emissions committee, 2004

### Honors

- Navy Achievement Medal, 2005
- Research Excellence Award, Iowa State University, AEEM Department, 2002

### Recent Publications

1. Zechmann E, Hayden C [2005]. Sound power measurement techniques for powered hand tools. National Institute of Safety and Health, Acoustical Society of America.
2. Hayden C, Zechmann E [2004]. Production of a noise level database of power tools used in the construction industry. Acoustical Society of America Semi-Annual Meeting.
3. U.S. Navy JAG Corps Courtroom Noise Control Guidance [2004]. OJAG/NLSC May.
4. Bleedorn K, McKee M, Yarbough D Jr., Yu C, Zechmann EL, Mann JA III [2002]. Noise source identification and control of a contractor grade table saw. Acous Soc Am semi-annual meeting, June.
5. Hayden C, Zechmann E. NIOSH powered hand tool Database Web site. ([http://www.cdc.gov/niosh/topics/noise/workplacesolutions/ toolsDatabase\\_alt.html](http://www.cdc.gov/niosh/topics/noise/workplacesolutions/toolsDatabase_alt.html))