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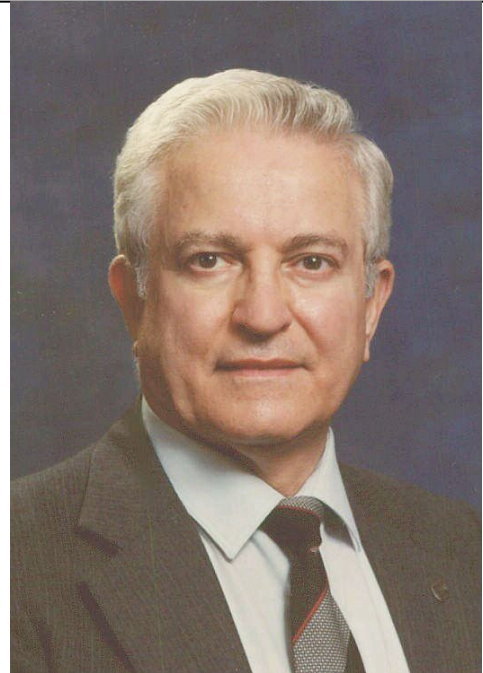
**RESUME -- 2016 --
ANGELO J. CAMPANELLA, P.E., Ph.D., FASA**

Dr. Campanella received his Ph.D. from the Pennsylvania State University in 1955 in Physics and Electrical Engineering with theses in Acoustics and ultrasound. He is a professional engineer in Ohio and Pennsylvania, with over 60 years of experience in industrial physics, electronics, applied acoustics and vibrations.

For forty years, he has provided consulting and testing services in the fields of applied physics, architectural acoustics, occupational noise and vibration measurements and mechanical equipment noise reduction design. Applications include HVAC noise quieting, residential and commercial building partition noise insulation design and field testing, television and radio studio and church acoustical design, computer modeling of transportation and HVAC noise, community noise monitoring and vibration measurements, seismic and stress analysis of nuclear power plant fans and vibration isolation of critical mechanical systems.

He has presented and published technical papers on acoustics, noise effects on personnel and the associated hearing loss. These include room design for noise protection, acoustical privacy & comfort, speech intelligibility and design for quiet in meeting rooms and classrooms, vibration control in buildings and community noise due to transportation and aircraft operations. He has testified as an expert witness on occupational noise and its effects on personnel, and the effects of noise on residential and commercial land use. He recently served on an AIBS committee on ARMY hearing loss control.

He is a fellow of the Acoustical Society of America (ASA), a distinguished member of the American Society for Testing and Materials (ASTM) Committee E-33 on Building and Environmental Acoustics participating in the drafting of national and international acoustical material measurement standards, the American National Standards Institute (ANSI), International Standards Organization (ISO) TC-43/SC1 (Acoustical Measurements) and SC2 (Building Acoustics), the National Council of Acoustical Consultants (NCAC), the Concert Hall Research Group (CHRG) and he is president of the Central Ohio Chapter of the Acoustical Society of America. He is an aircraft owner and pilot holding commercial, instrument and flight instructor ratings.



COMPANY PROFILE

CAMPANELLA ASSOCIATES,

**3201 Ridgewood Drive
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Acoustical design and noise isolation testing of auditoriums, residential units, studios, and offices. Computer modeling of airport, highway and railroad noise for master plans. Registered engineer in Pennsylvania and Ohio. Participates in joint ventures. Has an aircraft for travel to remote sites. Member of ASA, ASTM, SAE, INCE associate.

Principal: Angelo J. Campanella, Ph.D., ASA, ASTM, SAE, NCAC, CHRG, INCE associate, P.E. (EE) PA, OH aerospace physicist `55-72.

Expert in acoustics and vibrations. Surveys, reporting, noise control design, computer modeling, expert witness and seismic analysis. Cabin interior noise and vibration reduction by design and testing. Extensive noise and vibration field test equipment for OSHA, Leq, DNL, IIC and seismic mitigation recommendations for FAA, FHA and HUD compliance. Computer modeling of noise around airports, highways and railroads for master plans. Seismic (dynamic and stress) analysis of nuclear power plant components. Registered engineer in Pennsylvania and Ohio. Industrial physicist for 17 years. Participates in joint ventures and has an aircraft for travel to remote sites. Member of ASA, ASTM, SAE, INCE associate.

General Data: The firm was founded December 1972 (Acculab), individual. Clients are in the east, south, Midwest, southwest US Joint ventures. Aircraft available for travel to remote sites.

Services: Acoustics, vibration, noise, physics, seismic, fatigue analysis, expert witness, environmental, field testing. "Acculab": Calibration Reference Sound Source, the Open-Office Component Test Loudspeaker, and the Hemi-anechoic Space Test Loudspeaker according to ISO 3745. OEM, the Acculab Reference Sound Source.

Typical Projects:

Churches, auditoriums, audio recording & TV studios, open-plan offices.

Noise isolation of condominiums, apartments, offices, factory facilities, aircraft noise.

Field testing (wall/floor/facade STC, IIC, OITL). OSHA (TWA) compliance. Residential site survey (DNL HUD/FHA), HVAC Sound Power.

Master plan (DNL, SEL) contours, highways, railroads and airports.

Building & sensitive instrument vibration isolation design.

Fan seismic/fatigue (OBE, SSE S-N) analysis.

Typical Clients are Architects, attorneys, developers, building owners, engineers, government, institutions, testing laboratories, manufacturers and utilities.

Experience Profile

ANGELO J. CAMPANELLA, Principal of Campanella Associates.

EDUCATION Bachelor of Science in Physics, Wilkes College and Penn State
MS and Ph.D. in Physics and Electrical Engineering, Penn State, theses in acoustics and ultrasound

PROFESSIONAL REGISTRATIONS AND AFFILIATIONS:

Registered Professional Engineer, in Pennsylvania and Ohio.
Acoustical Society of America, noise committee member
American Society for Testing and Materials (ASTM) committee E-33
Vice Chairperson, Subcommittee 33.01 on Absorption
" " " 33.06 on International Standards
Delegate to ISO/TC43/SC2 on Building Acoustics,
US expert on two working groups.
National Council of Acoustical Consultants

Dr. Campanella founded Acculab in 1972, devoted to expert designing and testing services in the fields of applied physics, architectural acoustics, community noise, occupational noise and vibration measurements. These activities extended into mechanical equipment noise-reduction design and applications, HVAC noise quieting, residential and commercial building partition noise insulation design and field test, television studio, radio studio and church acoustical design. Computer modeling is performed for transportation and HVAC noise, community noise and vibration monitoring, seismic and stress analysis of nuclear power plant fans and critical mechanical systems. He has testified as an expert witness on the amount and effects on personnel of occupational noise and the effects of community noise on residences. In 1986, the name of his firm was changed to Campanella Associates to reflect the information services provided. These include room design for noise protection, acoustical privacy, comfort, speech intelligibility in meeting rooms, vibration control in buildings and community noise due to transportation and aircraft operations. He has presented and published technical numerous papers in acoustics, including the following.

Interior and Exterior Diesel Locomotive Noise Measurements.

Presented at the ASA* November 16, 1976 meeting in San Diego, CA.

Compensation for Occupational PTS for several Railroad Engineers and Firemen.

Presented at the ASA* May 18, 1978 meeting in Providence, RI.

Railroad Noise Impact on Residential Land Planning, ASTM STP 692. "Community Noise" 1979

The Noise Impact of a General Aviation Airport on a Growing Community

National Association of Noise Control Officials, 4th Meeting.

Community Noise Ordinance Drafting by an ad-hoc Committee (co-author), NOISEXPO, 1980

Perspectives on Acoustics in Environmental Design, (co-author),

The Journal of Architectural and Planning Research. 4:2 (1987)

Vibration Isolation Criteria for Elevated Mechanical Equipment Rooms, Sound and Vibration.

Oct. '87

Getting the Message Through, Sound and Video Contractors. January, 1988

Legal Clients have included:

Mike Tousey, L.P.A.

Edward Flood, L.P.A.

Richard Curry, L.P.A., Cincinnati, Oh.

City attorney of Sandusky, Ohio

City attorney of Kalamazoo, Mich.

Dykema, Gossett et al, Detroit

Rerat Law Firm, Minneapolis, Minn.

Richards, Grieser, & Blumenstein, L. P. A.

Beckham, McAliley & Shulz, P. A., Jacksonville, Fla.

Penn, Stuart Eskridge & Jones, L. P. A., Abingdon, VA.

A.J. Campanella Expert Witness Activities in Noise Matters:

1- Testimony in-

The Federal District Court of Southwest Ohio

The Common Pleas Court of Franklin County, Ohio

The Common Pleas Court of Cuyahoga County, Ohio

The Circuit Court of Duval County, Florida

The City of Sandusky, Ohio

The City of Kalamazoo, Michigan

Courts of Dickenson and Buchannon Counties, Virginia and Pickaway Co. Ohio

Court of Common Pleas, Delaware County, Ohio (city of Westerville vs Polaris Amphitheater concerts) Attorney, Steve Pflaum, 227 W Monroe St, Chicago, Ill 60606-5096

2- Depositions for cases tried in

Federal Court of Huntington, West Virginia

Federal Court of Beckley, West Virginia

Campanella Associates (formerly “Acculab”):
Radio & Television Studio Acoustical Design Experience:

Central Ohio Radio Reading Service (1975, Columbus): This small benchmark multi-studio facility for live news and talking book services for and by the blind was fitted into existing retail space at High and Rich Street. It featured low cost, efficient acoustical studios, control and conference rooms. Small reading booths produced broadcast quality tapes. It remained in use for over 15 years. It brought successes and an endowment to buy the old Hilltop Library for renovation into a new studio by others.

Warner Cube Studios (1979, Columbus, 3rd Ave. & Olentangy Rd.): Three television studios, one of which has an outdoor view window, were built into an existing grocery store building for cable TV. Ancillary spaces were a broadcast booth, tape editing rooms, and a computer room to facilitate audience reaction surveys. A technical report is available. HVAC was designed for NC-25.

Warner Cube Westland (1981): This new build studio was designed for audience participation.

Creative Production Services (1985, Cleveland, OH): A noise and vibration survey as performed to assure suitability of the chosen building spaces near railroads would be acceptable for TV Production. Suitable noise and vibration control measures were recommended.

Ball State University Telecommunication Complex (1987, Muncie, IN): This new build, funded by a contribution from alumnus Dave Lederman, is a complex of nine (9) radio and television studios for broadcast, editing, remote teaching (“electronic classroom”) and media production. It has since enjoyed widespread popularity, including the series “The Joy of Painting”, where one enjoys the sotto voce comments by the painter and can hear the individual brush strokes as they occur. Also this complex made the first application of our wide spaced parallel plate noise isolation windows throughout.

QVC Studios (1987, Philadelphia): Telemarketing studio facilities were designed to provide optimum on-line telephone operator acoustics for continuous operation.

Grace Wild TV Production Studio (1990 Farmington, MI): This large studio accommodates full-sized automobiles for TV commercials, has drive-in access, and roof noise isolation against rainfall.

Depauw University Center for Contemporary Media (1989, Greencastle, IN): This telecommunications complex and studio is designed for remote teaching and panel discussion productions.

WPXI TV Studio upgrade (1990, Pittsburgh, PA): This downtown studio was fitted with larger studio, control rooms and administrative spaces.

WMJI (1991): This studio was fitted into the sixth floor of the Court House Square building in downtown Cleveland. Noise and vibration surveys were made, then the acoustical and noise control design provided to produce a sound absorptive, NC20-25 acoustical studio environment for this AM/FM facility.

WWVA: This famous Wheeling, WV radio broadcast studio was expanded to provide three broadcast studios faced onto a street scene. A special wide-spaced window system isolated them from the engine noise studio and administrative space and to face windows of diesel busses at this downtown Wheeling, WV scenes WWVA bus stop.

WILL Studio Doors noise isolation Tests: Over 25 doors, walls and windows within this University of Illinois @ Champaign tele-complex were tested for compliance with design noise isolation.

Ohio State House TV production studio Doors: (1996, Columbus): Critical doors installed in the A/V Production studios were tested for compliance with design noise isolation. Corrective construction details were recommended.

Campanella Associates (formerly “Acculab”):

Airport Noise Experience:

Ohio State University Airport. 1975: Noise study and contours drawing for Master Plan.

FAA. 1976: Propeller Aircraft Noise Emission Reduction Study.

Cuyahoga County Airport (CUY) 1980: Field noise measurements for property near airport. Expert testimony.

Port Columbus (CMH) runway 9L28R runway expansion noise study. 1981: Contours. Noise Contour computation and drawing. Environmental Noise Impact Assessment.

Groveport, OH vs Rickenbacker Airport Noise Study. 1982: Airport Change as Cause of Noise Increase. Expert Testimony.

Wings Field runway 6/24 runway expansion noise study. 1985: Traffic Survey,. Noise DNL computation. Environmental Noise Impact Assessment.

Toledo Express Airport (TOL) Night Cargo Noise impact on Nursing Homes (1991): Noise Impact Assessment and facility moving criteria.

Hotel acoustical design:

Galt Hotel Louisville, KY (Guest Room Noise Insulation measurements) 1984

Radisson (now Columbus Airport Marriott) 1986

Cincinnati Airport Marriott 1998

Holiday Inn Cincinnati Airport 1989

Homewood Suites Cincinnati 1989

Hyatt Cleveland Arcade Hotel 1999

SpringHill Suites Columbus 2009

BridgePark Dublin 2015

Financial & Office Center acoustical design:

Cincinnati Financial Corporation (CFC): offices-2006 & environmental-2009

Community Noise

Campanella Associates uses quality instrumentation to monitor community noise per HUD 24 CFRS and FAA PART 150. We apply the latest computational techniques to predict such noise environments into the future. Municipalities, developers and residents can be supplied with noise data to identify imminent noise impacts near any airport, railroad or roadway. This information is supplied in numerical, tabular and graphic (contour) formats.

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