



WSDG
WALTERS-STORYK DESIGN GROUP



ARCHITECTURAL
ACOUSTIC
CONSULTING

MEDIA
SYSTEMS
ENGINEERING

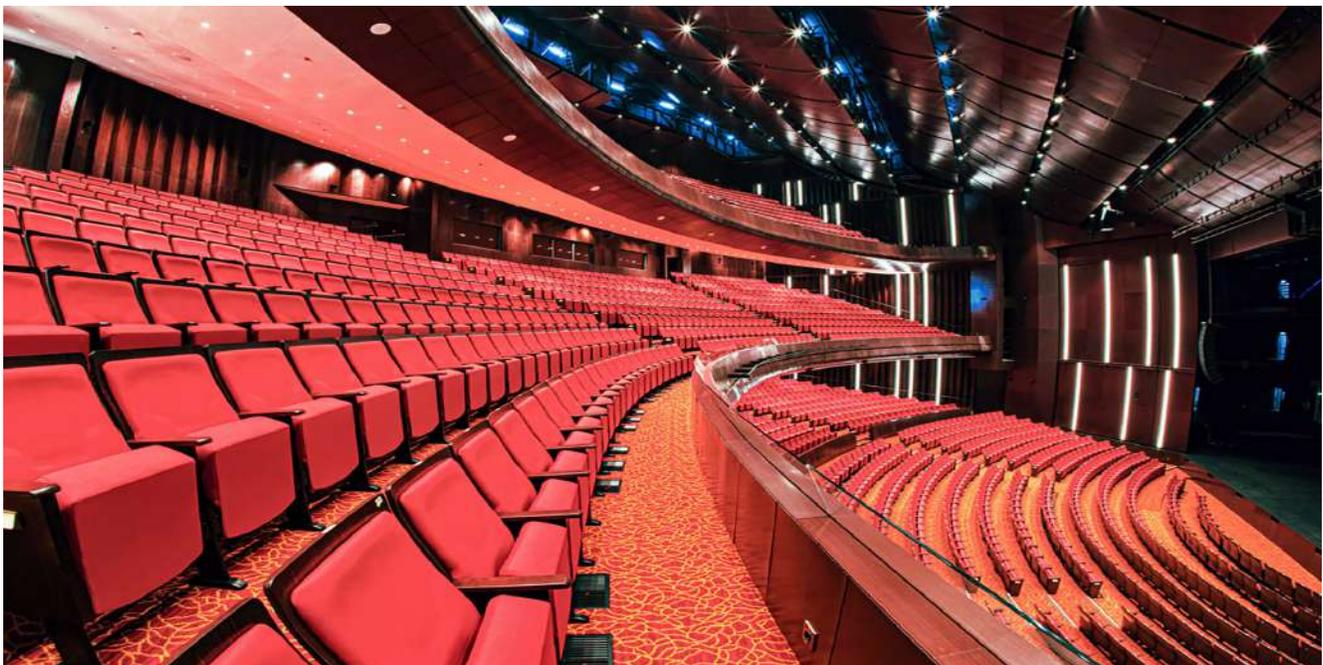
Company Profile
Corporate Hospitality

wsdg.com



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Company Background and Structure

Company Background

WSDG - Walters-Storyk Design Group is a global architecture, acoustic, electro-acoustics and advanced audio-visual systems integration consulting and design firm. Pioneering architect/acoustician, John Storyk (AIA), founded the company in 1969 with the creation of Jimi Hendrix's Electric Lady Studios in New York.

WSDG was co-founded by Beth Walters and John Storyk. The firm's headquarters are located in Highland, New York, and it also has offices and representation in Latin America, Europe, Middle East and Asia as well as a global team that includes over 70 partners, associates and design professionals.

WSDG's history of innovative design achievement has produced over 4000 diverse global projects. These assignments include acoustics and systems design for clients such as: Apple, Google, Spotify, Sony, Amazon, NY's Jazz At Lincoln Center, Alicia Keys, Jay-Z, Bob Marley, Bruce Springsteen, Celine Dion, Def-Jam Records, Epic Games, ESPN, KKL (Switzerland), MTV, TV Globo, WNET, UCLA, and Vienna Symphonic Orchestra.

WSDG is an eleven-time winner of the international NAMM TEC Award for studio design creativity. Recent WSDG TEC winners include: Jungle City Studios, NY, the Berklee College of Music – 160 Mass. Ave. recording/teaching complex, Boston, The Church Studios, London, and Boston Symphony Orchestra Control Room, Boston, MA. The firm's work has been published extensively, and discussed in numerous professional audio, broadcast and systems design publications.



Company Structure

WSDG maintains offices and representation around the world:

USA:

Highland, New York
New York, New York
Miami, Florida
San Francisco, California
Los Angeles, California

Europe:

Basel, Switzerland
Berlin, Germany (ADA-AMC GmbH)
Barcelona, Spain

Latin America:

Buenos Aires, Argentina
Belo Horizonte, Brazil
Bogotá, Colombia
México DF, México
Punta del Este, Uruguay

Asia:

Guangzhou City, China
Mumbai, India
St. Petersburg, Russia

Services | Architectural Acoustic Consulting

Acoustic Testing, Measurement and Assessment

WSDG employs sophisticated measurement equipment, the most up-to-date acoustical data-collection and analysis software and complex visualization tools to determine and optimize existing acoustical conditions in time and frequency domains, including RT60 Reverberation Times, Transmission Loss, STI Speech Intelligibility Assessments, SPL Sound Pressure Level distribution, Background Noise Levels and many other parameters. Our engineering team specializes in acquiring critical measurement data in-situ or laboratory-based for documentation. This work applies to both technical design and legal / forensic purposes and presents useful interpretations of measurement results and their consequences. All work complies to the latest international standards, industry benchmarks and professional compliance values.

Acoustic Simulation, Modeling, Auralization

WSDG uses complex prediction and analysis software to model and study the behavior of sound in a three-dimensional virtual prototyping environment by means of an iterative process and has also pioneered the use of acoustical modeling tools and auralization by using the industry's most advanced acoustic prediction and modeling software. These software tools facilitate "auralization" - a complex calculated algorithm that allows for input of an original, non-processed audio file (such as a speech announcement or an acoustical instrument recording) and then renders an audible reproduction of the future acoustical situation in the virtual building environment. This allows all stakeholders to listen to music, speech or any audio content in the virtual design reality, thus providing an invaluable tool during design and planning.

Room Acoustics Analysis and Surface Treatments Design

Room Acoustics is the science of controlling a room's internal acoustic characteristics by creating geometry in combination with creative surface materialization using reflection, absorption and/or diffusion. Excessive reverberation time can lead to poor speech intelligibility, high ambient noise levels, poor ability to concentrate and limited comfort, specifically in workplace and privacy / confidentiality applications. Interior acoustical floor, wall, and ceiling surfaces can be created using a wide variety of materials and finishes, including perforated, slotted, fabric covered, foam based, plastic, wood, glass, metal or gypsum materialization. WSDG carefully studies and specifies appropriate materials and applications, always with a keen eye and respect for a project's underlying architecture.

Sound Isolation, Structural Acoustics Analysis and Design

Structural Acoustics analyzes noise transmission from building exterior envelope to interior and vice versa, as well as noise transmission from one room to another within the building environment. Inadequate acoustical isolation may lead to elevated sound levels within the space which reduces privacy, comfort level and concentration ability; severely limits speech intelligibility and has implications for noise health effects. Primary noise paths often include roofs, ceilings, eaves, walls, windows, doors, room partitions, as well as flanking, ducting and other penetrations. Sufficient noise containment control ensures space functionality and is often required by local municipal codes. WSDG specifications include construction details for wall and slab assemblies and special acoustical isolation conditions (including "room-within-room" construction).

Peer Review, Expert Reports, Studies and Surveys

WSDG is a trusted partner for Peer Review, Expert Reports, Studies and Surveys within the context of Architectural Acoustics Consultation. Peer review is the evaluation of work and studies conducted by other parties. This work is often required to maintain standards of quality; assess solutions and designs; provide a second opinion or variations to a concept; create alternate solutions to improve performance and efficiency; provide credibility; and verify costing and time table analysis. WSDG's studies and surveys are often based on in-situ or laboratory measurements and assessments utilizing a wide range of international benchmarks and standards.

Media Facility Site, Facility, Master Planning, Feasibility Studies

WSDG provides a wide portfolio of design and consulting services that support media facility conceptual planning, master planning, site selection and feasibility studies as well as timely, detailed and cost-effective advice on highly sensitive and complex architectural construction and renovation projects. WSDG has extensive experience with sensitive architectural issues including historical renovations, additions and new construction projects in media production, corporate, government, education, broadcasting and cultural / entertainment sectors.

Broadcast and Recording Studio Design

WSDG brings over 50 years of experience in providing design and consulting services that support Broadcast and Recording Studio projects during all phases (master planning, schematic design, design development, construction documentation, bidding – pricing, construction administration and final commissioning / close out). WSDG provides timely, detailed and cost-effective advice on highly sensitive and complex architectural construction and renovation projects, from small but critical retrofits to challenging ground-up construction. WSDG brings extensive experience to sensitive architectural issues including historical renovations, additions and new construction projects in media production, corporate, government, education, broadcasting and cultural / entertainment sectors.

Technical Interior Design, Product Development and Prototype Testing

WSDG provides technical interior design and integration services for media production, cultural, entertainment and corporate environments in close collaboration with all stakeholders with the goal of enhancing room design, achieving a healthier, more inspiring, more ergonomical and more aesthetically pleasing environment. WSDG provides conceptual development, space planning, site inspection, programming, research and construction management for technical AV and lighting design, lighting control, acoustical surfaces and sightline considerations. Designs are illustrated by means of 3D visualizations, renderings and VR simulations. WSDG's engineering team and laboratories are available for acoustical studies, assessments, and measurements as well as for supporting further optimization of acoustical parameters of a given product under development. Feasibility studies and virtual prototyping can be conducted to ascertain the product's acoustical performance level and market position.

Services | Media Systems Engineering

Media Systems Design and Equipment Recommendations

WSDG gives guidance in an increasingly crowded world of technology devices, standards and practices all claiming to be the best and the most futureproof. Corporate, cultural, educational, residential and governmental sites alike are constantly striving to improve their media systems in an effort to stay on top of current presentation, communication, collaboration, conferencing and entertainment techniques. WSDG provides well integrated AV System Designs based on the highest industry standards, while working collaboratively with its clients in developing long term visions, outlooks and strategies.

Media Network, Distribution, System Control, IT and Communication Systems

Telecollaboration, teleconferencing and telecommuting significantly influence corporate culture and workflow. Substantial engineering and integration efforts are required to make these technological advances in fact be supportive to the workforce. WSDG designs individual office, boardroom, conference center, and site wide media networks, while providing AV infrastructure with solid privacy protection and high usability to satisfy even highest quality requirements in both sonic and visual aspects.

Audio / Electroacoustic Engineering, Simulation, Modeling and Auralization

The most visible part of the electroacoustical system is the loudspeaker. Loudspeakers are complex electromechanical devices so varied and rapidly shifting that the market is hard to oversee even for professionals. WSDG specifications are based on 3D acoustical software simulations and virtual prototyping of the venue or room where the architectural conditions are overlaid with the technical, aesthetical and budgetary criteria of the project at hand. WSDG often creates simulated audio playback demonstrations, called auralizations, to facilitate decisions based on auditory impact. Selecting the electroacoustic system most suitable for the space, after determining room acoustics and structural boundary conditions in what-if scenarios, enables WSDG to achieve and exceed target parameters such as loudness level, frequency range, coverage, directivity control and speech intelligibility STI. Electro acoustical systems may be used in voice alarm / emergency scenarios, where properties such as redundancy, certification and reliability are highly critical. WSDG has extensive experience for such systems and is fully familiar with all current national and international regulation including e.g. FIFA, IOC and UEFA.

Audio, Electroacoustic Systems Calibration, Tuning and Optimization

Audio System Calibration or Audio System Tuning is the science and art of bringing the entire sound system to operate at its peak performance. The commissioning process involves WSDG's highly experienced experts in audio measurement and sonic accuracy and is based on a sequence of tasks to obtain the maximum audio precision of the component ensemble installed in a space. Frequency and time-domain measurements as well as extensive listening tests are employed to carefully determine the correct placement, phase-alignments, crossover points, equalization and gain control of a loudspeaker-room system. Full documentation concerning component settings is issued by WSDG for client's reference. For professional audio systems, WSDG recommends recalibration every 12 to 24 months to increase system accuracy and to maximize ROI.

Video Systems Engineering, Content Capturing, Display, Visibility and Sightline Studies

No media experience is complete without a clear, bright, high resolution visual solution. WSDG provides comprehensive video system engineering services, including design of networks, hardware, software and other related infrastructure to support video applications within production, broadcasting, educational, corporate, information and entertainment contexts. Camera and display / projection system positioning often require integration and placement studies that are based on 3D visualization and studies. Typical auxiliary WSDG engineering fields include heat management and noise mitigation.

Peer Review, Experts Reports, Studies and Surveys

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Theatrical Systems

Theatrical Systems Engineering refers to conceptualizing, designing and implementing technical equipment and devices for the performance community, while integrating these designs into the architectural and acoustic fabric of projects. WSDG provides these services including networking infrastructure, theatrical audio-video systems, immersive 3D audio replay, theatrical lighting, wired and wireless communication devices and stage machinery with the goal to give venue owners, producers, and artists the means to express their talents to the full extent of their creative imagination.

Relevant Experience

WSDG (Walters-Storyk Design Group) and its principals have an extensive body of clients in the fields of architectural acoustic consulting, facility master planning, and media systems engineering. A list of projects that supports our company profile and credentials follows. For a more extensive client list, please see www.wsdg.com. Our experience spans over 50 years in architectural design, internal room acoustics, advanced noise isolation, and systems design required for acoustically sensitive projects of all sizes. Moreover, WSDG has the ability to work seamlessly within a team design environment.

We have assembled a list of projects that underscore our experience with multiple project types:

Doha Oasis Doha, Qatar	Los Molinos - Faena Arts Center Buenos Aires, Argentina	Shanghai State Grid Pavillion Shanghai, China
Hirslanden Group Zurich, Switzerland	Flughagenkopf – Zurich Airport Zurich, Switzerland	Swiss Parliament Bern, Switzerland
Sumitomo Boardroom New York, USA	El Porteño Buenos Aires, Argentina	St. Gallen Train Station St. Gallen, Switzerland
Jazz at Lincoln Center New York, USA	KKL Concert Hall Luzern, Switzerland	Restaurant T Buenos Aires, Argentina
VSL Synchron Stage Vienna, Austria	Iglesia Los Olivos Buenos Aires, Argentina	Aura Club Events Hall Zurich, Switzerland
ESPN - Digital Center 2 Bristol, USA	Rio 2016 – Barra Olympic Park Rio de Janeiro, Brazil	Inhotim Theater Brumadinho, Brazil
Morro de Chapéu Belo Horizonte, Brazil	Electric Lady Studios New York, USA	La Cigale Sky View & Piano Bar Doha, Qatar
Parliament Hall Landtag Düsseldorf, Germany	Arena Thun Stadium Thun, Switzerland	Berklee College of Music 160 Mass Boston, USA
Jakarta International Expo Jakarta, Indonesia	PepsiCo Content Studio New York, USA	The Anthem Washington DC, USA
Zurich Firm Zurich, Switzerland	TV Globo São Paulo, Brazil	National Museum of Qatar Doha, Qatar
UCLA Herb Alpert – Lani Hall Los Angeles, USA	Magazzino Italian Art Gallery Cold Spring, USA	Parque Viva La Guacima de Alajuela, Costa Rica
TSR – Télévision Suisse Romande Geneva, Switzerland	Pangu 7 Star Hotel Beijing, China	Hilton Garden Inn Montevideo, Uruguay
Rockwood Music Hall New York, USA	Tehran Book Garden Tehran, Iran	Peloton Flagship Spinning Center New York, USA

Doha Oasis - Doha, Qatar

One of the most ambitious, futuristic, and compelling ‘destination’ magnet projects ever built, The Doha Oasis is a “city-within-a-city” in the heart of Musheireb, State of Qatar. Totalling 4 million ft²/37,000 m² of hotel suites and exclusive residences, the complex is comprised of two ultra-luxury, 20-story elliptical glass residence buildings, each with nine floors of duplex apartments; a 29-story, seven star hotel with 7 restaurants, and a business center. The “Jewel in the Crown,” is a nearly 775,000ft²/72,000m², “Themed Experience Center” (TEC) featuring twenty-six next generation, self-contained experiential attractions and the Doha Oasis Boutique, a four-level underground “Commercial Podium” housing the TEC, an exclusive spa, and extensive high-end shopping options.

Project’s general contractor RedcoConstruction ALMANA retained WSDG to address a plethora of latent acoustic issues. To ensure complete sound isolation throughout the mammoth complex, the global WSDG acoustic team engaged its entire arsenal of acoustic measurement, testing and analysis protocols as well as critical isolation and design services to identify and eliminate all potential sound isolation issues.

The WSDG acoustic measurement team consisted of Miami-based Project Manager/Acoustic Engineer, David Molho and Middle East representative Marc Viadiu. They performed a full week of comprehensive acoustic analysis and modeling tests in Doha for a critical Peer Review Testing mission of the expansive complex using world-class BNK 2250 microphones and sophisticated DODEC Omni-directional speakers.

The Doha Oasis will open officially in 2022 in conjunction with that year’s World Cup Games being held in Qatar. Describing the process David Molho reports, “We performed over 1000 individual area STC and reverb time measurements for this assignment, and our comprehensive analysis confirms the quality of ARUP Group work. The Doha Oasis complex is magnificent, and we look forward to our next round of testing in this extraordinary multifaceted environment.”



Doha Oasis - Doha, Qatar



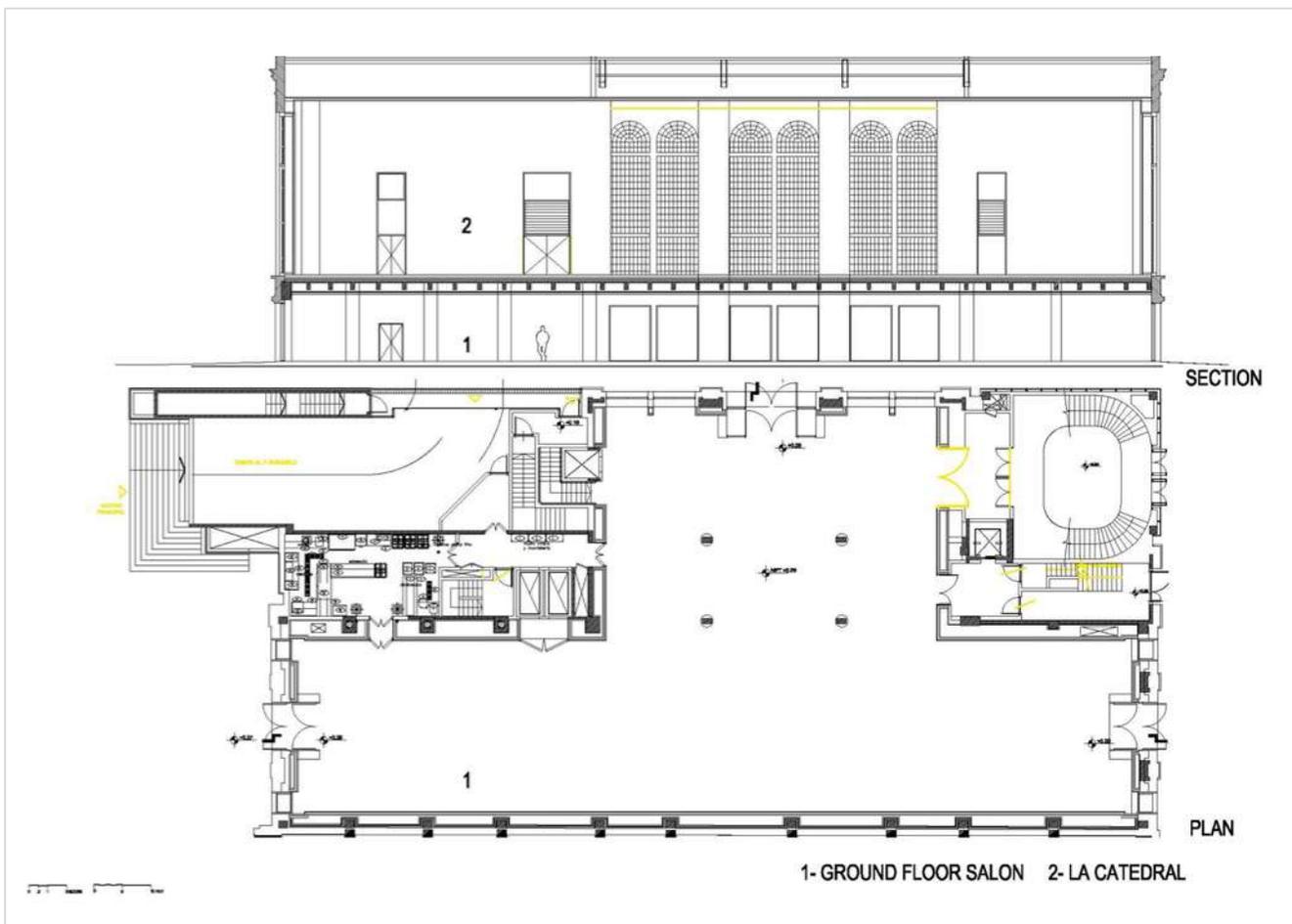
Los Molinos - Faena Arts Center - Buenos Aires, Argentina

The Puerto Madero (old port) in Buenos Aires has for years been an area of rebirth and architectural revitalization. It is home to numerous new restaurants, media businesses, clubs and hotels. As a part of Alan Faena's real estate undertakings in Puerto Madero, the new Faena Arts Center includes the renewal of the historic building of Los Molinos Food Company.

The most serious acoustic challenge was the creation of 100% isolation between the two event halls, each requiring high SPL levels and simultaneous 24/7 operations for trade shows, concerts, weddings, etc. Additionally, there exists the even more difficult issue of the adjacent luxury apartments located directly on top of these two halls. Alan Faena's directive was simple "... no matter what's going on at the Halls, we need ZERO impact on the apartments..."

With that directive in place, WSDG proposed and designed a fully decoupled and isolated "box in box" solution, similar to recording studio technology, except with the added challenge of scale.

As the space will be used primarily as Art Exhibition and Performance Venue, the curator requested an internal acoustic treatment solution that would allow a high degree of clean smooth wall surfacing. The final solution called for the majority of the room's acoustic absorption to be obtained from a stretched fabric ceiling with over 20 inches of concealed acoustic baffling. This was inserted above the room's technical catwalk, continuing the present the appearance of a room with smooth surfaces, while greatly reducing the reverb time – allowing for increased speech intelligibility.



Los Molinos - Faena Arts Center - Buenos Aires, Argentina



Shanghai State Grid Pavilion - Shanghai, China

In an effort to create a totally unique Pavilion exhibition, the State Grid Corporation of China (SGCC) commissioned ATELIER BRUECKNER of Stuttgart, Germany to design the Magic Box, a distinctive cube which appears to float within the State Grid Pavilion complex. Rated number three in China's top ten enterprises, and a global partner of EXPO 2010, SGCC is tasked with the country's transmission and distribution of electricity. The stunning Magic Box Pavilion consists of six giant LED walls – the six faces of the cube, each measuring approx. 15m x 15m (50 feet x 50 feet) – and features a glass bridge suspended three meters (10 feet) above the floor to facilitate downward viewing for 250 visitors to each presentation. Once inside visitors are rewarded with a unique, fully immersive, entirely computer-generated, three-dimensional surround audiovisual experience. Not surprisingly, the story focuses on energy: its origins, its transportation and how it is used to improve the quality of everyday life today and in the future.

Creating the fully immersive illusion is possible only with proper triggering of the visual and auditory senses. To establish this holistic listening experience a totally innovative environment was developed and implemented by Switzerland-based IDEE UND KLANG, a full service audio specialist, simultaneously charged with composing, creating, editing and mixing the original show soundtrack, an audio program designed for playback on a 21.2 channel Acousmatic Room Orchestration System (AROS).

Due to the parallel assembly of the LED panels, WSDG had to accept a certain amount of flutter echo, so increased attention was devoted to reverberation control. WSDG was responsible for evaluating if and how the selected digitally controlled line array loudspeaker system could deliver the best performance considering the unfavorable room acoustical conditions, and to suggest treatment if needed. The superiority of the line array system in terms of directivity was established by simulating the direct sound pressure coverage of the entire room through additional acoustical simulations.



Shanghai State Grid Pavilion - Shanghai, China



Hirslanden Group - Zurich, Switzerland

With 14 hospitals in all of the greater Swiss cities, and a staff of over 1600 doctors – the Hirslanden Group is one of Switzerland’s major privately-held health care providers. As one of the centerpieces of the Group’s operations, the Hirslanden Cardiac Clinic in Zurich offers the entire spectrum of modern cardiac surgery through its team of international specialists.

Zurich-based Dost Architecture was retained to develop an interior design concept to provide the expanding Hirslanden Group clinic with uncompromised functionality while also reflecting the organization’s intrinsic values. Their goals were to create a careful blend of minimalist design, surprising detailing and a remarkably continuous lighting scheme that would produce a welcome dialogue between clinical precision and interpersonal/environmental concerns. Acoustics are a particular and ongoing concern in Dost Architecture projects.

WSDG was engaged to study all aspects of the clinic’s room and structural acoustics – the latter being critical due to doctor-to-patient conversation privacy issues. A range of eight acoustical room treatments was developed based on WSDG findings. The clinic’s rooms were individually analyzed and a matrix was created to determine which application would most benefit each room. Cornerstones of the resulting program include: transparent, highly efficient acoustic curtains from the Silent Space Collection; Eyecatching Living Plant Wall Murals which require only natural or artificial light and minimal watering. These treatments have an absorption value comparable to that of a standard acoustical wall panel. The third WSDG recommendation, acoustically absorbing Baswa ceiling treatments, were primarily intended for the hallways and waiting areas. The completed expansion and acoustic design program meet all the client’s requirements for effective, aesthetically pleasing and environmentally sound room tuning.



Hirslanden Group - Zurich, Switzerland

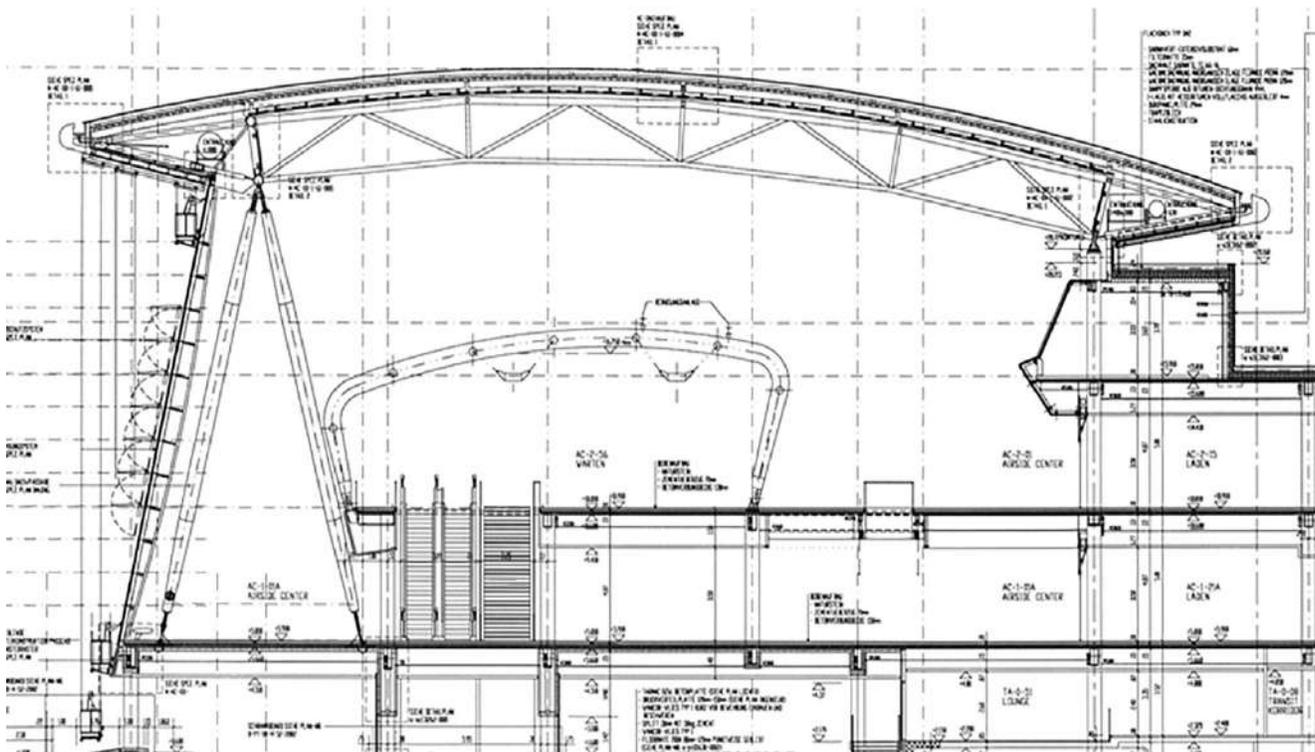


Flughagenkopf – Zurich Airport - Zurich, Switzerland

The Airside Center (A500), located between the existing finger docks A and B, acts as a focal point for travellers at the airport. The project is comprised of the new Airside Center (housing new shops and restaurants), the Underground Skymetro Station which connects the Airside Center to the Dock Midfield, the Arrival Hall just above the Skymetro Station, and various renovations within the A and B terminals. The previously existing buildings are all connected and the Airside Center, with its prominent shape, reflects the new identity of the airport.

WSDG was awarded the full electro-acoustic design of both of these new facilities by the responsible electrical engineering firm, Ernst Basler + Partner AG. WSDG's project scope included creating the electro-acoustic project requirements (e.g. Speech Intelligibility, Sound Pressure Levels, Frequency Responses, Coverage, etc.) in line with the appropriate national and international standards - IEC 60849; electro-acoustic design and optimization with assistance of computer simulations and other means of calculation; specifications and supervision of all driver components to the electro-acoustic system.

The specified system for the large open spaces with high ceilings is based on Duran Audio's Intellivox loudspeakers (a total of 16 units). These line array loudspeakers offer full digital beam steering control and, due to their narrow form factor, can be installed in a nearly invisible manner, meeting the project's architectural requirements. Ancillary specified loudspeakers for support spaces and adjacent areas are highly directional units from Frazier and HK.



Flughagenkopf – Zurich Airport - Zurich, Switzerland



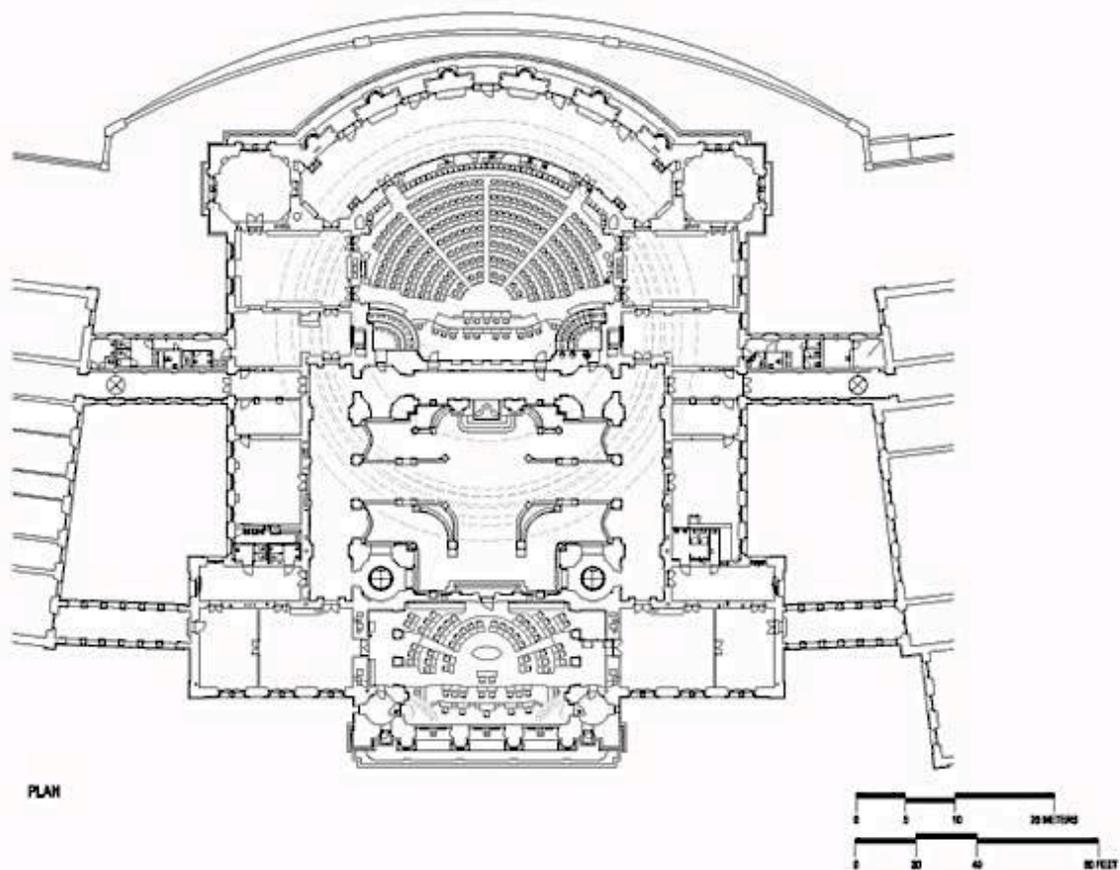
Swiss Parliament – General Assembly - Bern, Switzerland

The Federal Palace in Bern is the building in which the Federal Assembly of Switzerland (federal parliament) and the Swiss Federal Council (executive) are housed. The Federal Palace has been designed by the architect Hans Wilhelm Auer and was constructed out of sandstone from 1894 to 1902. From 2006 to 2008—after over 100 years of service—the first major renovation took place with the goal to integrate modern technology within a faithful restoration of the original building structure.

The National Council Hall has three distinctive zones that require sound reinforcement: the main hall, the stage area (with a distinctive presenter position and seats for the Chairpersons and Clerks such as vote counters and recorders) and the balcony (for visitors and press). WSDG was commissioned to perform three tasks:

- Study and analyze the installed electro-acoustical systems.
- Make multiple recommendations and specifications regarding upgrading or replacing the installed electro-acoustical systems.
- Upon the installation of the chosen system, we were commissioned to do a system calibration and final measurements of the upgraded or replaced electro-acoustical systems.

WSDG studied various upgrade options by using advanced acoustical computer simulation techniques.



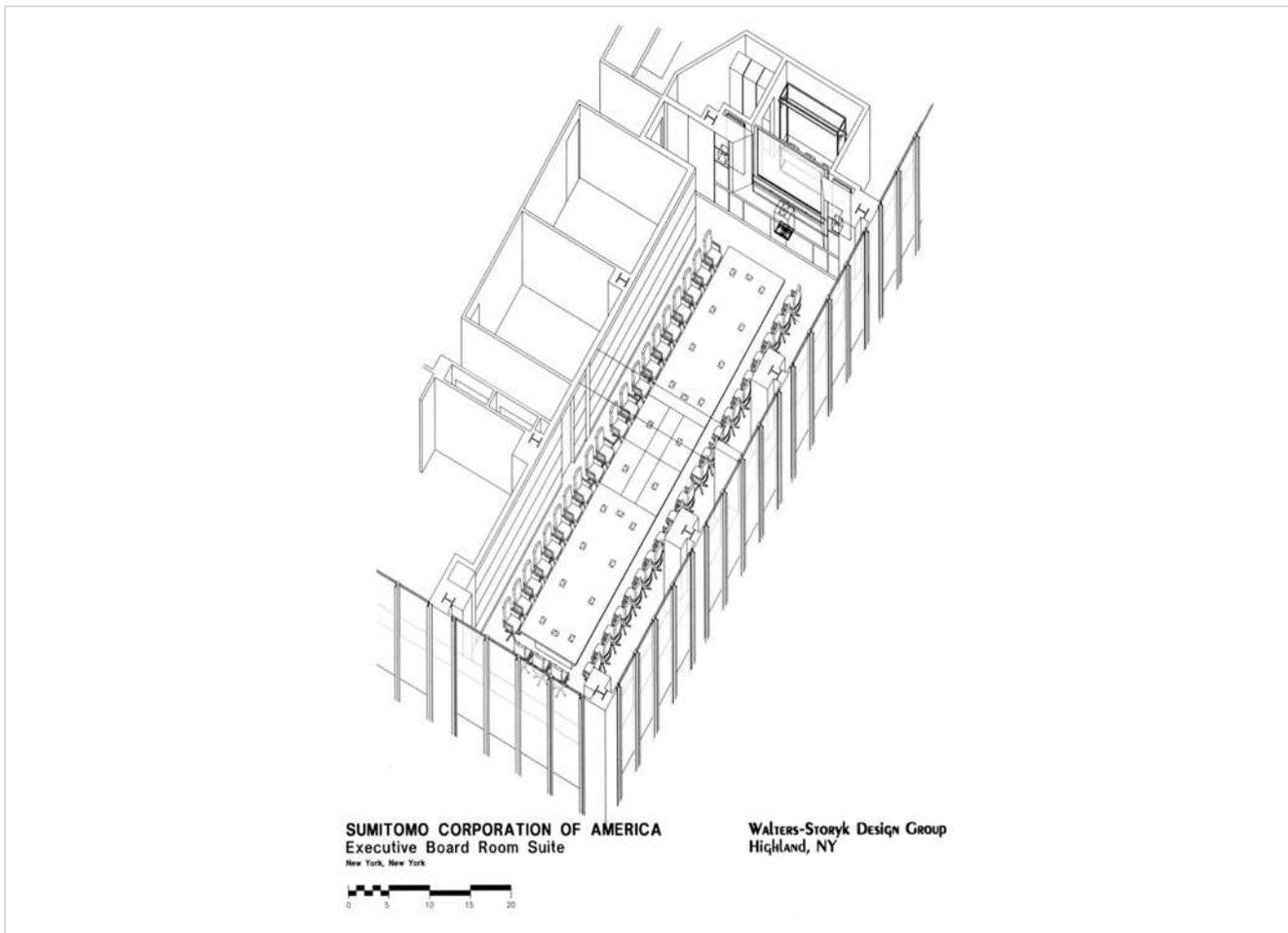
Swiss Parliament – General Assembly - Bern, Switzerland



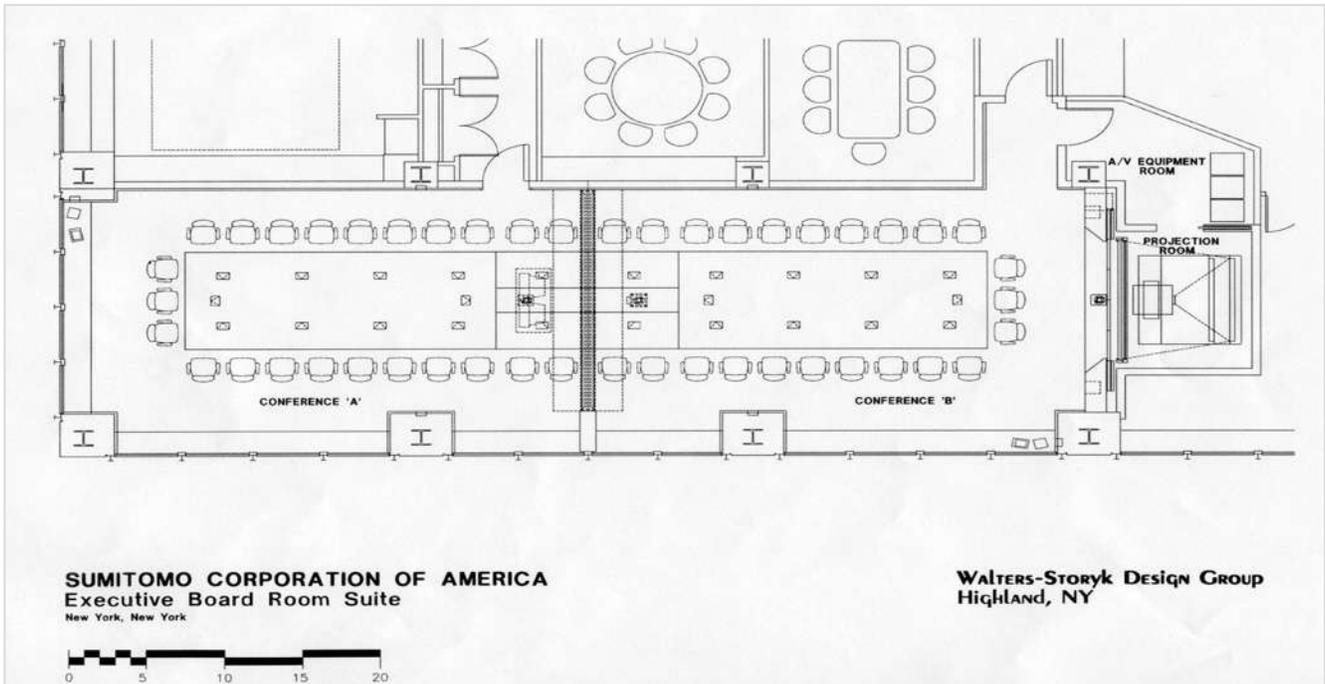
Sumitomo Boardroom - New York, USA

Our modern business environment has created multi-faceted companies with offices spread over wide areas; they can be within the United States, or around the world. People from these different locations must communicate on a regular basis, and also often need to meet in person to further company projects for both short and long-term goals. Today's technology allows the creation of multi-function facilities to facilitate that communication. Sumitomo Corporation of America (SCOA), the largest wholly owned subsidiary of the 300 year-old family run, Japan based Sumitomo Corporation, is one of the world's leading traders and distributors of goods and services. With hundreds of subsidiaries around the world—its largest is headquartered in New York City—this is one company that needs to take full advantage of available opportunities. When SCOA began the process of moving into a new headquarters facility at 600 Third Avenue, it called upon the Walters-Storyk Design Group to create a versatile state of the art multi-media executive boardroom that would carry them well into the 21st century; a space that would allow them to hold in-person managers' meetings, as well as communicate with other members of the company from offices throughout the US, and more than 100 countries worldwide.

SCOA's requirements for this space were extensive and ambitious. They required a space that was versatile enough to comfortably accommodate a full range of meeting sizes and types, and intelligently designed to seamlessly support the latest in A/V and communications technology. The room may be used one morning for a small in-person meeting with a handful of participants, and that afternoon for a 60-person audio/video teleconference. Other times, through the employment of a movable partition system, it will be required to handle two, small to moderate sized meetings, simultaneously. The room will be technologically outfitted to support almost any audio and video teleconferencing, presentation, or recording/playback scenario.



Sumitomo Boardroom - New York, USA



El Porteño - Buenos Aires, Argentina

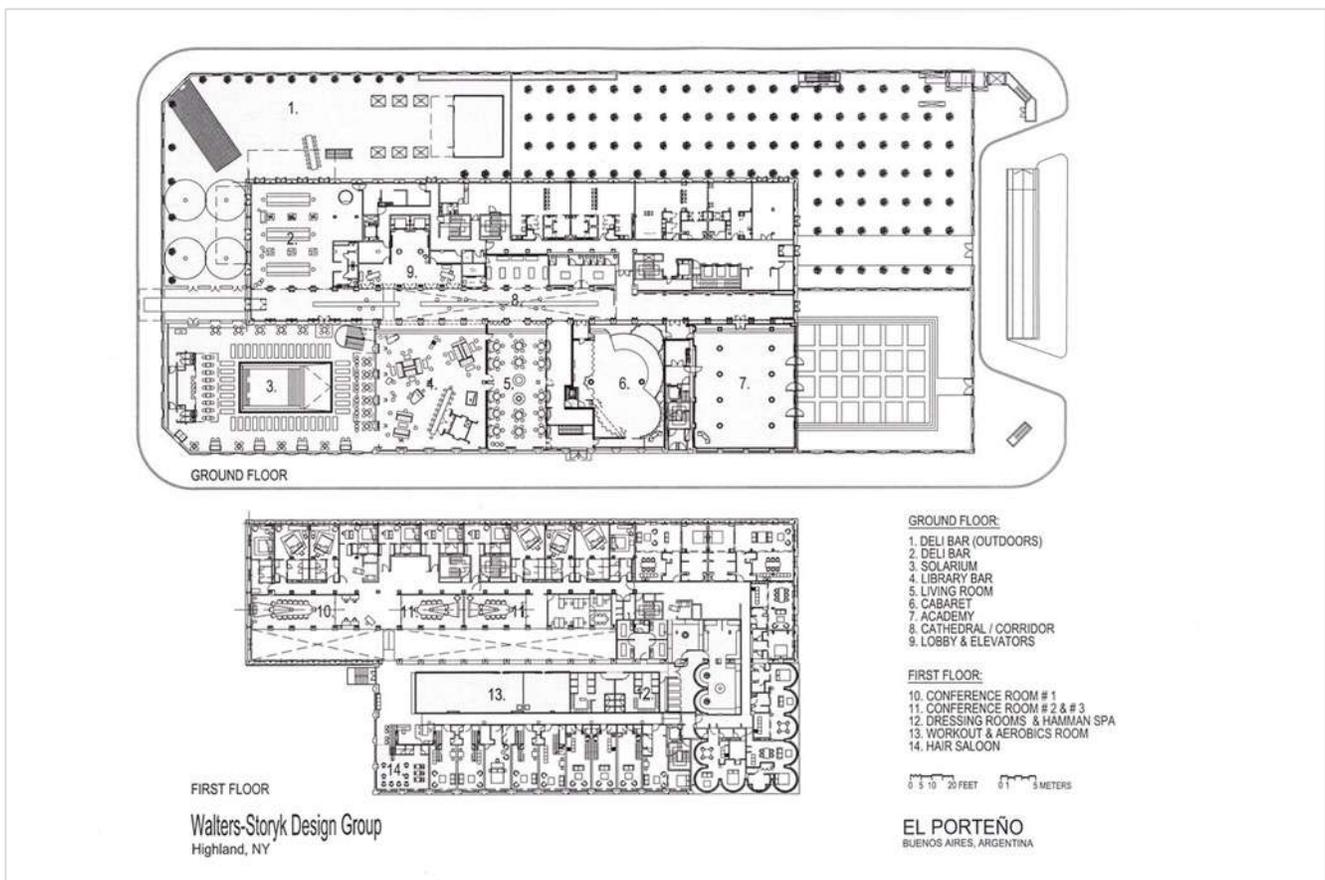
Alan Faena, an audacious Argentine entrepreneur, summoned the well-known designer Philippe Stark to remodel and redesign an antique building placed at the exclusive area of “Puerto Madero” in Buenos Aires City, Argentina.

Inside the hotel and the apartments building, more than 14 spaces for multiple uses can be found, among which we can appreciate the imposing Cathedral that is the entrance hall and hotel reception; the Living Room and the Cabaret.

The idea was to have an intelligent system of distributed music that could be capable of administering different musical programs for each of the public spaces, turning the hotel into a gigantic radio station of 14 simultaneous channels, distinguished simultaneously. On the other hand, we specified to the kind of architecture of the project, all the acoustic details for the isolation of the critical sound spaces (Night Club) in relation with the hotel rooms and apartments.

The challenge was to integrate all the acoustic and system integration solutions to the wonderful design team led by Philippe Starck.

In order to achieve the acoustic isolation of the critical spaces, we need to use a system of walls, floating ceilings hanging through springs; details that enabled the total isolation and acoustic decoupling among very close spaces.



El Porteño - Buenos Aires, Argentina



St. Gallen Train Station - St. Gallen, Switzerland

The St. Gallen train station hall is an architectural icon constructed in an impressive steel-glass structure which dates back to 1915. The visitor-related infrastructure – mainly lighting, signage and audio systems, have been upgraded intermittently since its original opening, most recently some 30 years ago. The systems therefore were in need of a substantial upgrade to 21st Century standards.

The goal of project architect Ernst Basler + Partner (www.ebp.ch), was to replace all the existing individual systems with one unified system, with the lighting, signage and audio needs integrated into the same joint mechanical structure. The Walters-Storyk Design Group (www.wsdg.com) was chosen as the acoustical consultant to work hand in hand with the architect to design and specify the new electroacoustical system. The electroacoustical installation provides travelers with scheduling information, track changes, updates and other vital announcements. High quality speech intelligibility is critical.

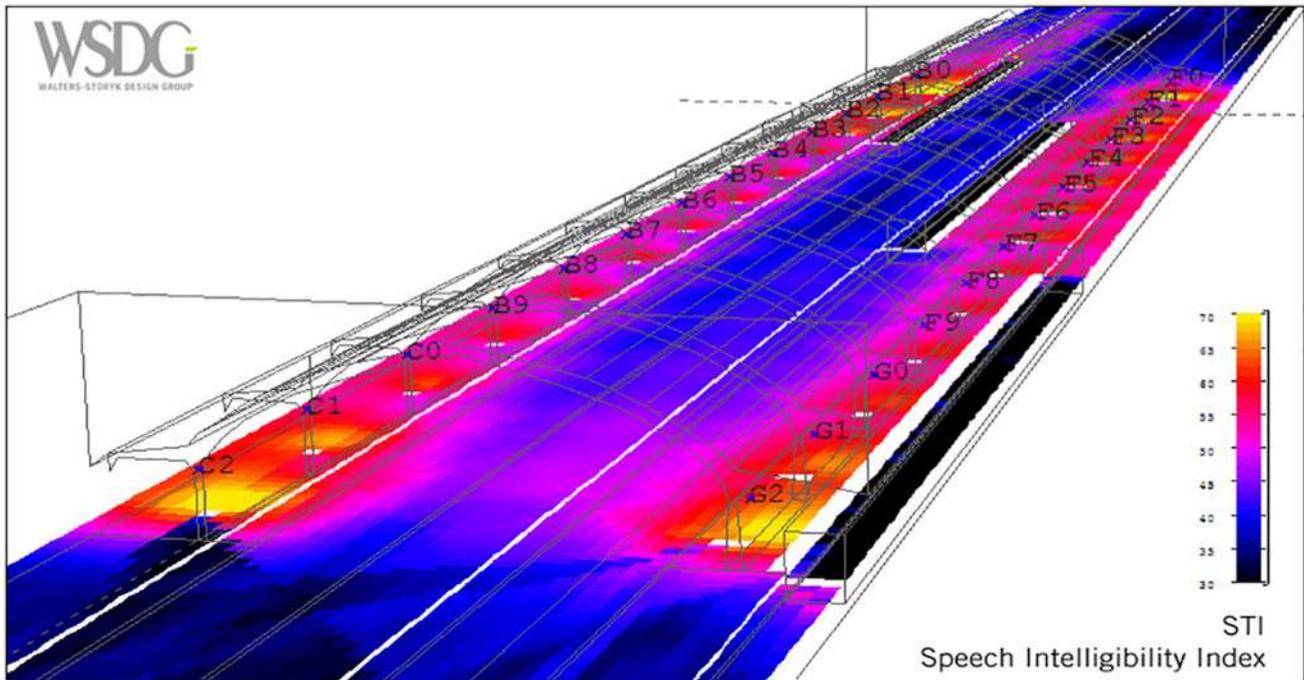
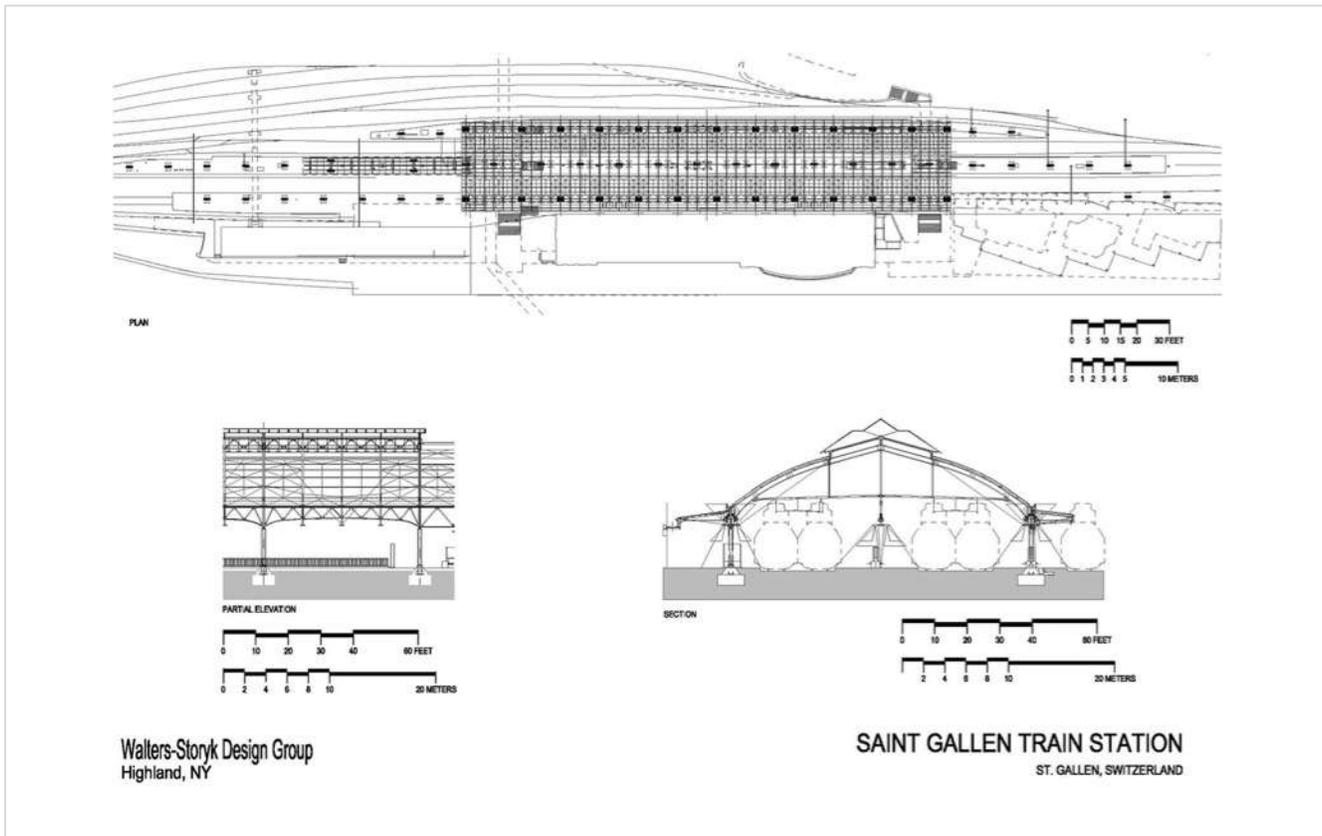
WSDG European GM Dirk Noy reports that because the St. Gallens station hall has a typical longitudinally stretched extrusion geometry, the use of a repetitive pattern for the technical installations presented the optimal installation configuration.

“The Train Station at St. Gallen was a challenging but ultimately gratifying project which took full advantage of the Walters-Storyk Design Group acoustic simulation, measurement and design skills,” Dirk Noy concludes.

“Concerns about environmental sound levels and clear speech intelligibility have grown in importance in recent years, and affordable, effective solutions are available. We are pleased to have made a meaningful, visually unobtrusive contribution to the improved functionality of this iconic hub of transportation.”



St. Gallen Train Station - St. Gallen, Switzerland

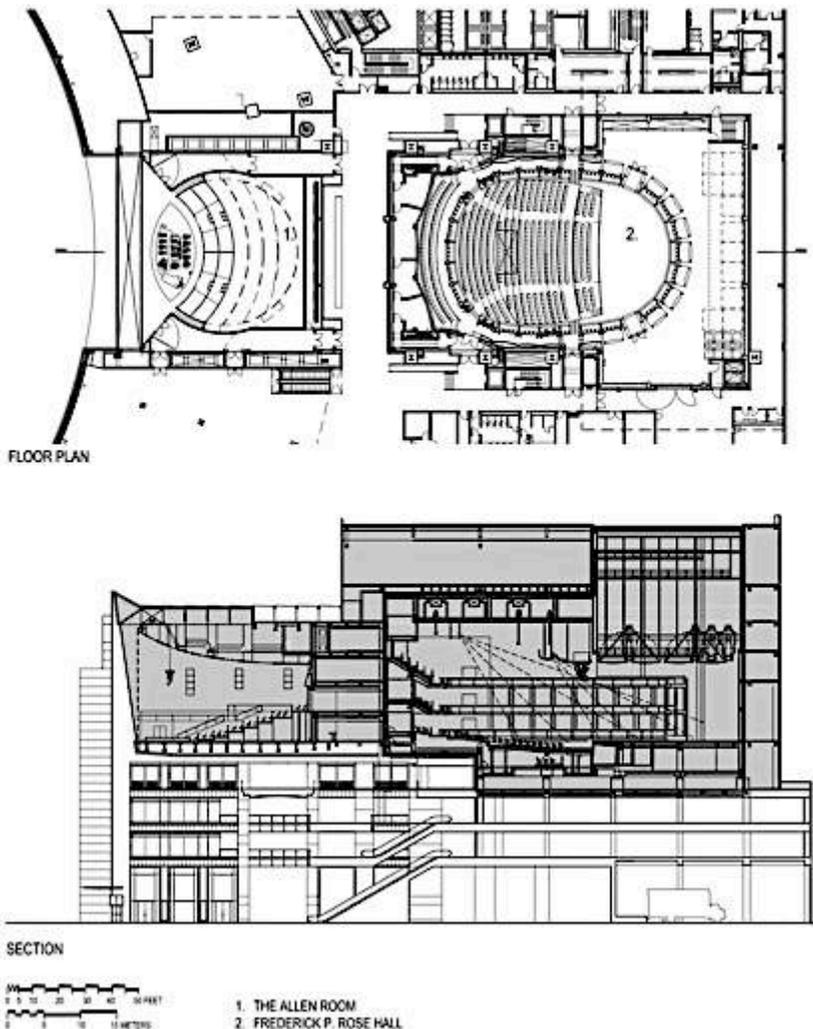


Jazz at Lincoln Center - New York, USA

Jazz at Lincoln Center is one of New York City's premier attractions, housing over 100,000 sq. ft. of performance venues, educational suites and recording/post production facilities.

The Frederick P. Rose Hall project consists of a 1,200-seat concert hall with movable seating towers. The hall can be configured for dance, opera, theater as well as provide an intimate jazz setting by surrounding the musicians with the audience seated on three levels in a stage surround setting. The Allen Room is a 300 - 600 seat performance space with tiered platforms ascending from the stage level to a dance floor with movable tables and chairs. The Irene Diamond Education Center is 3,500 sq. ft. and contains two state-of-the-art education/rehearsal studios.

WSDG, as partners in the Sound of Jazz Consulting Group, worked closely with the architects and Wynton Marsalis to acoustically design the education, rehearsal and recording spaces. The systems integration design for all performance, educational and listening spaces within this facility are linked together for recording and playback. This facility is the world's first performing arts center designed specially for the performance and recording of jazz.



Jazz at Lincoln Center - New York, USA

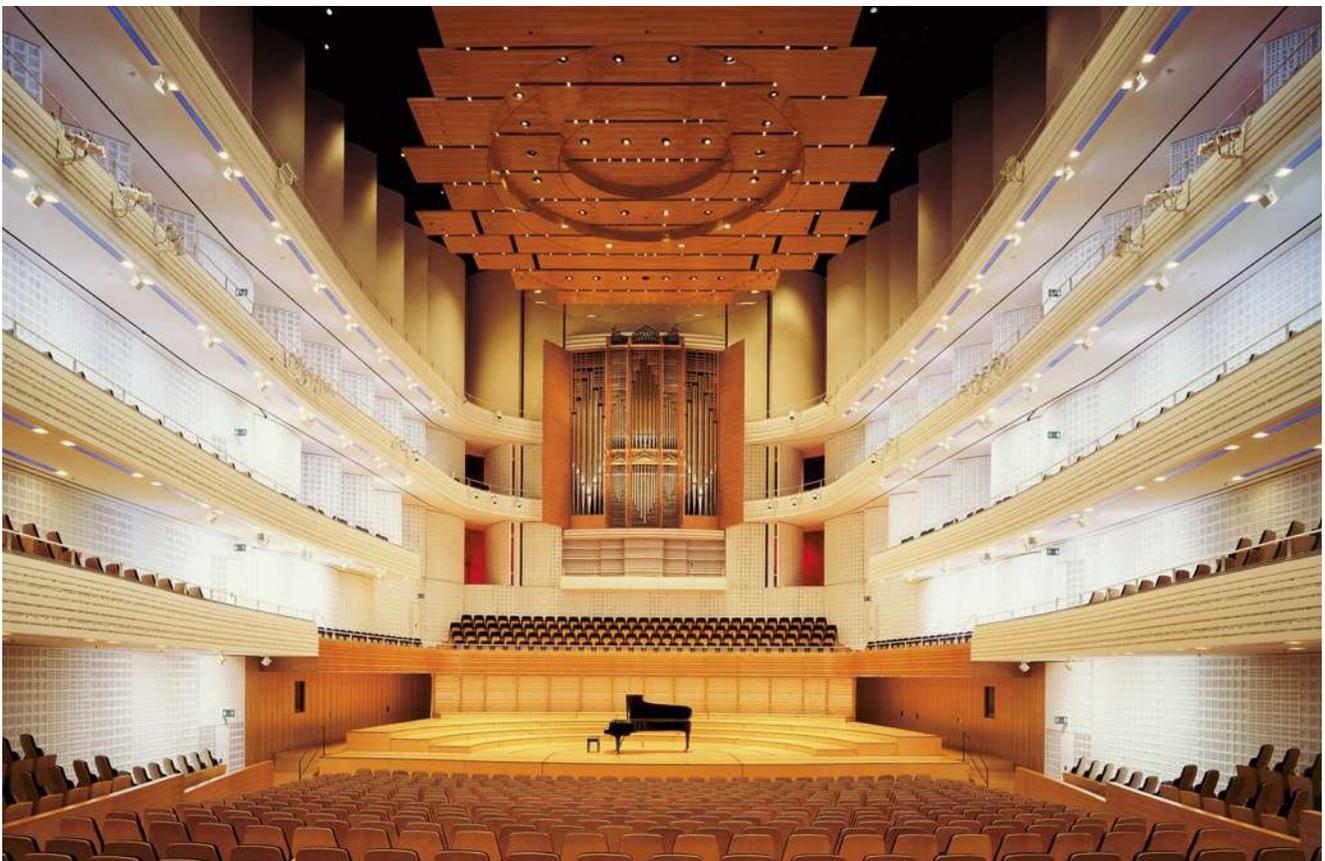


KKL Concert Hall - Luzern, Switzerland

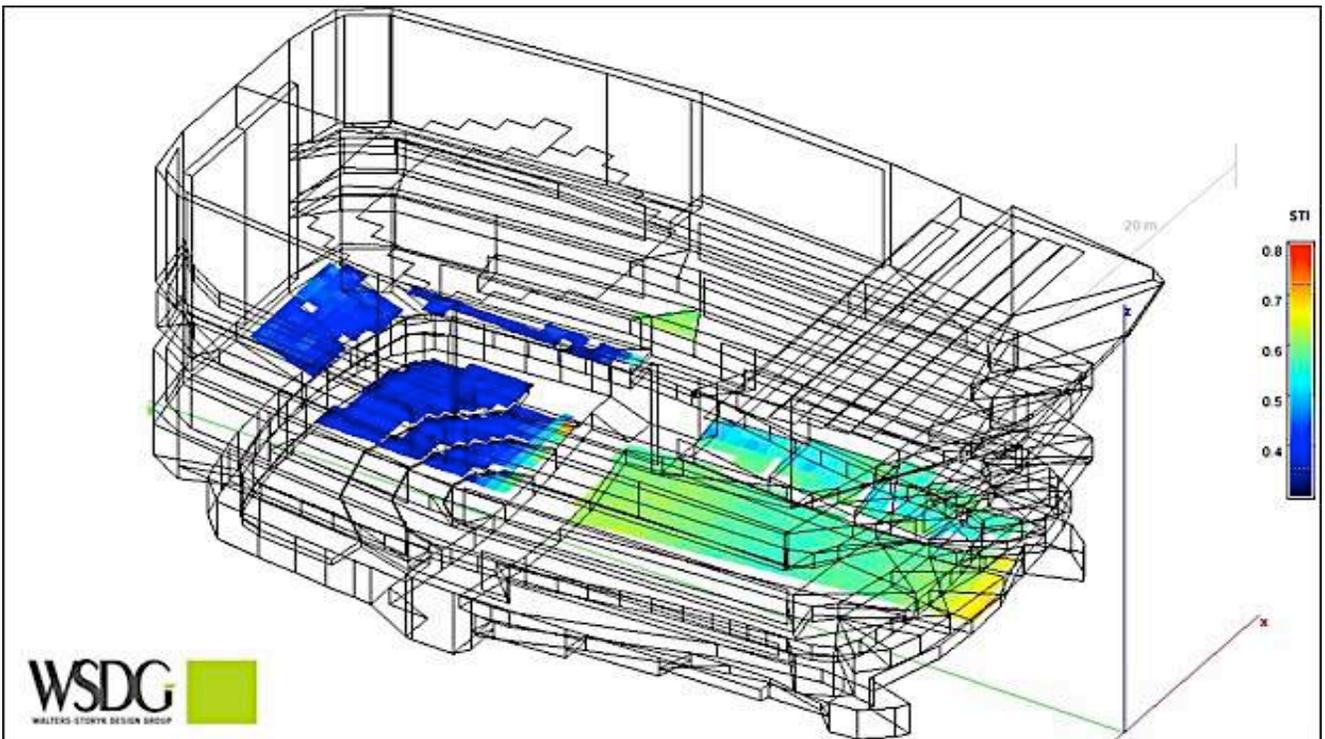
From its opening performance by the Berlin Philharmonic in August 1998, the KKL Luzern Concert Hall was recognized as one of the world's great performance centers. An international landmark, both architecturally and culturally, the complex attracts music fans from around the world to its picturesque lakeside setting. More than a dozen years of constant use – with an impressive yearly booking rate of more than 90% – coupled with significant technological advances prompted the KKL Luzern management group to upgrade its retractable electro acoustical system. WSDG was brought in to accomplish this essential project.

A major issue of this hall is the wide distribution of seats on five vertical levels surrounding three of the four walls, and consequently, the coverage requirements of the electro acoustical sound system. The core of the solution was the realization that the Hall is mainly designed for acoustical sources placed directly on stage. Consequently, the new main loudspeaker system was installed significantly lower and closer to the stage than the original system. The main system is supplemented by elements, which are permanently installed but retractable by motors. The project was divided into three phases: 1) Identification of the requirements, system planning and preparation of specifications; 2) On-site evaluation of a three loudspeaker system candidates; 3) The execution phase of installation planning, supervision and commissioning.

The new sound reinforcement system consists of the Left Right main system with two line arrays of eight d&b V12 units each, suspended above the stage front edge; two additional line arrays for covering each of the balconies with five d&b V12 units; a stage edge in-fill system consisting of two d&b V-Sub and two d&b V12 units each on the right and left and a stage mounted front-fill provided by six d&b E6 units. For events requiring a 360-degree speech reproduction, a retractable center cluster was provided with a front section (consisting of eleven d&b T10 units) and a rear section (consisting of three RCF VSA 2050 digitally controlled column loudspeakers).



KKL Concert Hall - Luzern, Switzerland



STI Speech Transmission Index

Restaurant T - Buenos Aires, Argentina

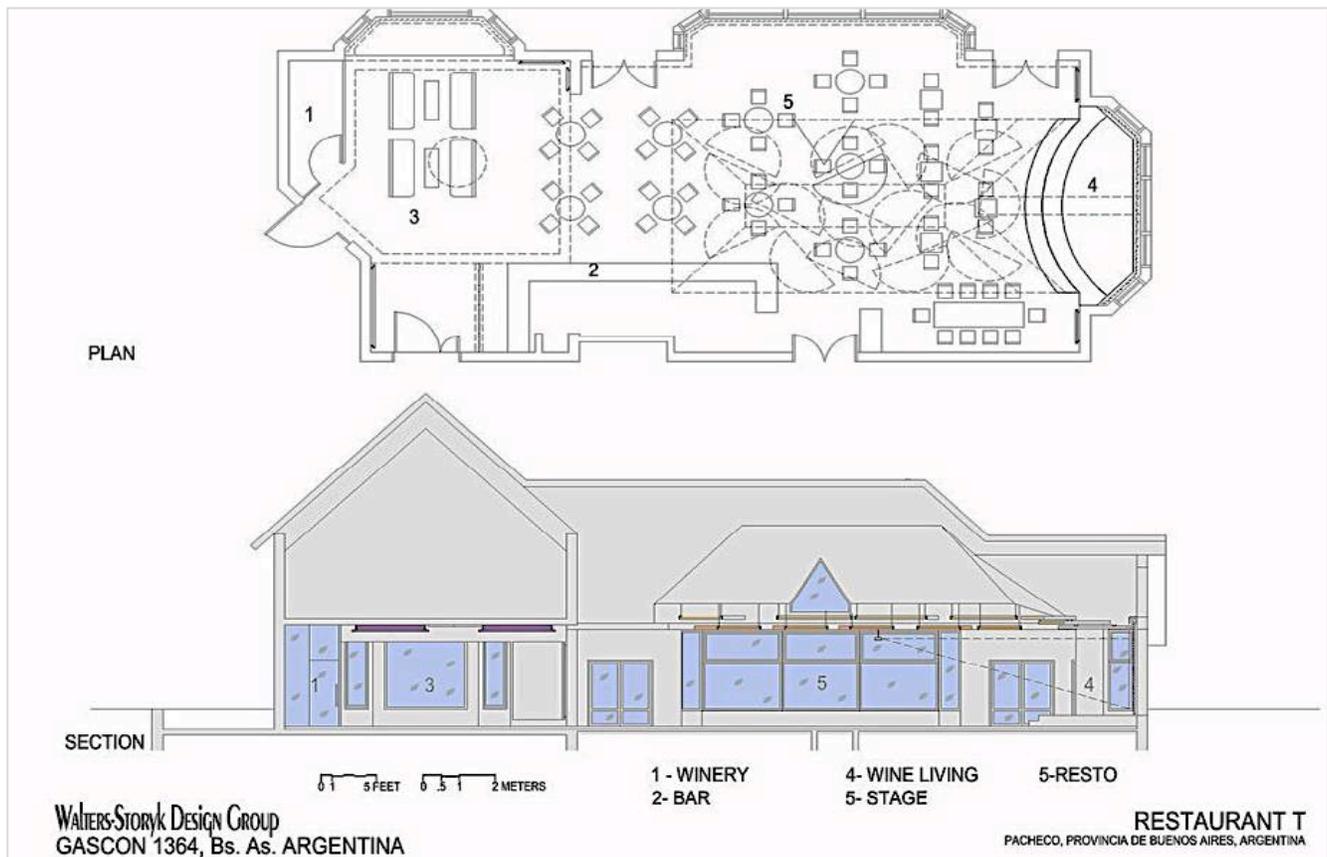
Restaurant T is an upscale gourmet restaurant, located in the Pacheco Golf Club, a gated community & country club in Nordelta, north of Buenos Aires. In addition to delicious food the elegant dining room offers two distinctive special attractions, special lighting capable of changing the entire atmosphere almost instantly and, a carefully tuned acoustic environment which comfortably enables diners to hear each other speak. The project marks the first restaurant completely designed by the Walters Storyk Design Group (WSDG) and included complete technical and acoustic conceptualization, and a unique set of aesthetic goals.

In April 2009, renowned Chef Hernán Taiana, a popular fixture in the celebrity-spiced world that summers in Punta del Este, Uruguay, approached Sergio Molho, founding partner of the WSDG Latin American office. Taiana's primary goal was to create a restaurant offering not only delectable food, but discernable acoustic comfort. When WSDG responded with a comprehensive proposal featuring aesthetic and technological recommendations, the firm was awarded the entire project.

In developing a unique look for the venue, the WSDG design team took advantage of recent developments in acoustic treatments such as clouds and panels to insure an environment which would promote conversation rather than drowning out conversations with the typical restaurant din. The design followed a very specific color palette of white, black, grey, and metallic colors over wooden diffusers to develop an elegant, modern look.



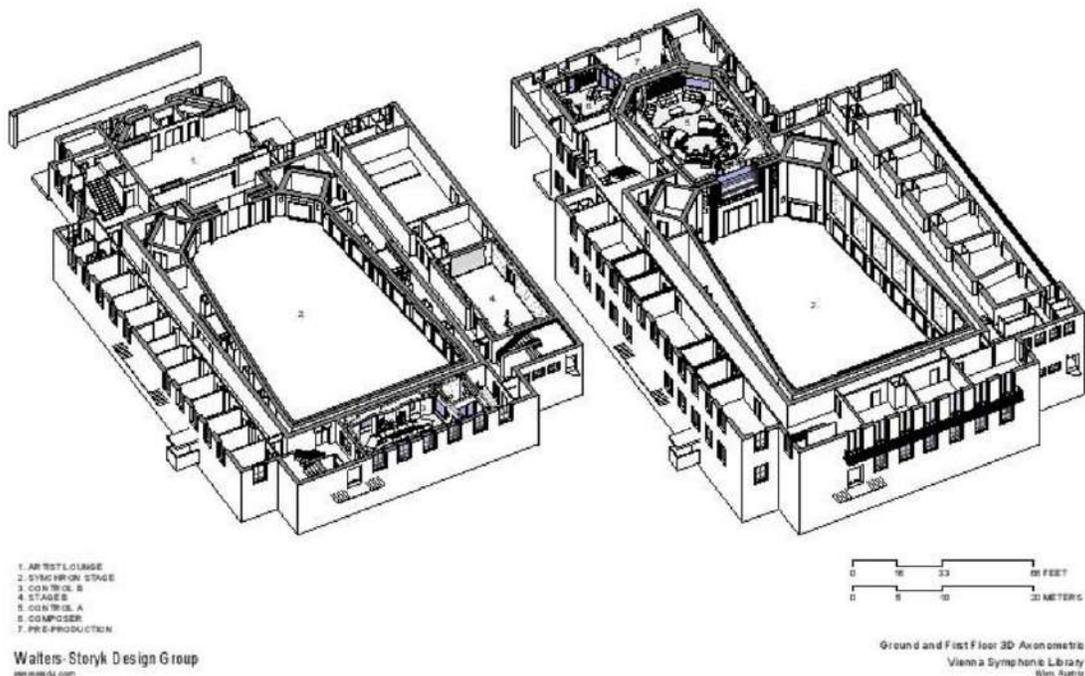
Restaurant T - Buenos Aires, Argentina



VSL Synchron Stage - Vienna, Austria

A leading developer of orchestral sample libraries and music production software, the VSL Synchron Stage enlisted WSDG to upgrade its historical (circa 1940) scoring stage into a cutting-edge recording facility. The reconfigured complex now provides enhanced acoustics and cutting edge technology for recording film music and, the full spectrum of orchestral and choral works. The 2,000 sq. m. / 21,000 sq. ft., VSL complex represents the World's only scoring stage capable of merging proprietary software innovations with traditional technologies and procedures.

The scope of the multi-year assignment required WSDG's wide-ranging facility planning services. Beginning with documentation of the overall state of the property, WSDG performed room and structural acoustical measurements and schematic conceptual planning. The Design Development Planning stage included interior design by company co-founder, Beth Walters. Construction Documentation was completed in collaboration with local architect, Schneider-Schumacher. The scope of work comprised: The VSL Synchron Stage A Control Room and large Recording Hall; VSL Synchron Stage B CR and Live Room; and the Studio C Edit Room, and Preproduction Suite. WSDG also performed the electro-acoustical system calibration for the audio monitoring system. The VSL Synchron State is distinguished by uniquely future-proof technology, making it a superb recording facility for film music and other orchestral and choral works. A large scale Dante Audio Network with input and output interface connection points at all relevant locations, serves as the facility's network backbone.



VSL Synchron Stage - Vienna, Austria

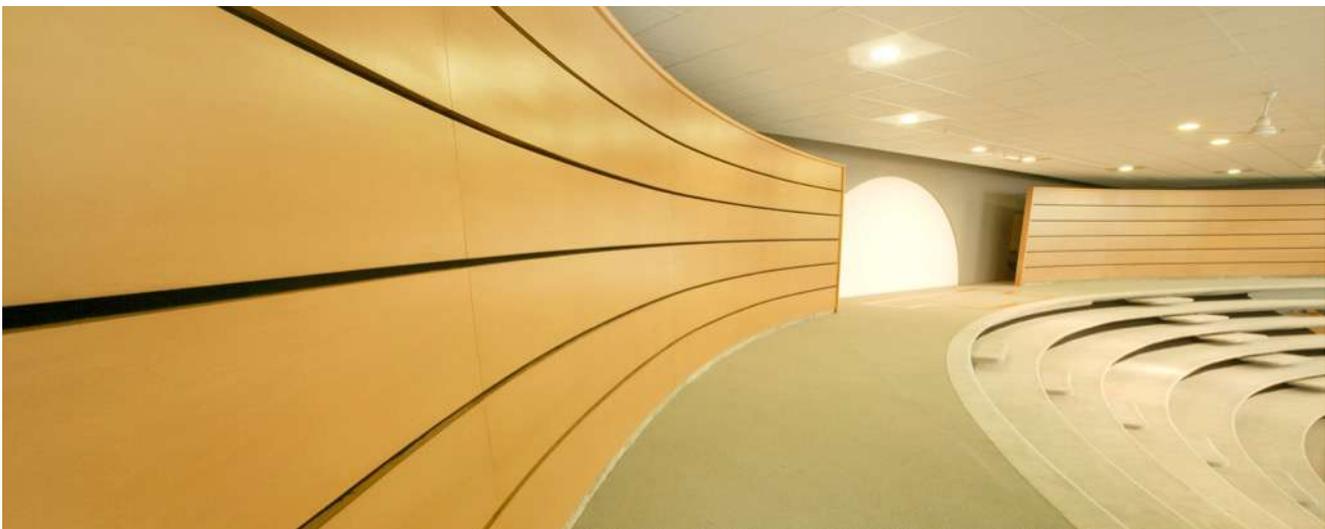


Iglesia Los Olivos - Buenos Aires, Argentina

"Los Olivos" church called us to improve the acoustic and electro-acoustic performance of an existing space.

After having done acoustic measurements, we had to manage with modifications on the sound system, adjustments on the general equalization, and a modification in the altar and the performing area of the orchestra.

Together with the Minister and his collaborators, we had to relocate the altar, the orchestra, the stands for the choir and we placed a semi-circular panel, acoustically absorbent on the back area, and acoustically reflecting on the front area, to allow the sound coming from the altar go directly to the audience.



Iglesia Los Olivos - Buenos Aires, Argentina



Aura Club Events Hall - Zurich, Switzerland

Built within the historic 21,000 sq. ft. (2,000 sq. meter) former “Alte Boerse” Zurich Stock Exchange Building, AURA encompasses four distinct settings, a 100 seat gourmet restaurant, an intimate bar, a chic, stylish smokers’ lounge and, a 4,800 sq. ft. (450 sq. meter) Events Hall capable of accommodating up to 500 guests. Featuring groundbreaking 360° panoramic video projection and 3D audio systems, the Events Hall is designed to host galas ranging from awards and fashion shows to banquets, weddings and corporate gatherings.

AURA’s uniquely flexible, multi-purpose strategy required the amalgamation of state of the art technology, within a highly sophisticated acoustic environment. The video presentation system engages eight, ceiling-mounted, high-performance projectors. Audio distribution employs a total of 80 loudspeakers, (70 of which are skillfully concealed by acoustically transparent, architectural construction). Deploying such a massive arsenal of cutting edge technology within this urbane, 21st Century atmosphere necessitated an extremely flexible and creative systems integration.

Aura’s vision for 3D audio presentation required full integration with the venue’s video imagery and innovative lighting, to establish a combined central focus for the Events Hall. All three elements were tasked with functioning interactively, to achieve a fully immersive environment capable of completely engaging guests within messaging and/or entertainment programs. WSDG’s Basel office was retained to design and coordinate the massive sound isolation planning and construction project to fully adhere to Zurich’s stringent city center legislations and limits. Various preset programs were developed to enable a myriad of speaker combinations (all together, or in an infinite range of individual or cluster groupings), depending on need, e.g. live performance, 3D surround sound, etc. Additionally, the ‘sweet spot’ can be expanded to encompass the entire room, providing a spatial sound experience for all guests.



Aura Club Events Hall - Zurich, Switzerland



ESPN Digital Center 2 - Bristol, USA

ESPN, the global leader in comprehensive sports coverage, has completed a five-year development and construction project for its new Digital Center 2 studio/media production center. An ambitious addition to ESPN's existing Digital Center 1 campus in Bristol, Connecticut, the 194,000 sq. ft. complex was envisioned as a "format-agnostic/future-proof" creative production facility with unlimited potential for trail-blazing content creation. A comprehensive green and employee comfort-focused environment were primary goals for the new facility.

With six new production control rooms, four audio control rooms and 16 edit suites, ESPN's Digital Center 2 technical capabilities are exemplified by a multi-dimensional monitor wall featuring 56 variably sized individual monitors designed to provide 3D-like graphic images. An arsenal of 40 state-of-the-art cameras is highlighted by a JITA cam capable of swooping up to a height of 22 ft. and following a circular track to deliver a sweeping 360° studio overview. The Center 2 routing system can accommodate as many as 60,000 simultaneous signals over 1,100 miles of fiber optic and 247 miles of copper cable deployed throughout the facility.

All these rooms are dedicated to producing flawless audio and video for programs, interviews, voiceover recording and the full spectrum of broadcast audio for video support. Overall quietness throughout the entire creative plant was an absolute priority. High performance broadcast acoustic specifications and recommendations were developed for all critical services including HVAC, fire protection and electrical systems. ESPN Digital Center 2 represents the apex of broadcast, cable, and Internet streaming production. The complex stands as a major accomplishment in next-generation audio/video production and delivery.



ESPN Digital Center 2 - Bristol, USA



Rio 2016 – Barra Olympic Park - Rio de Janeiro, Brazil

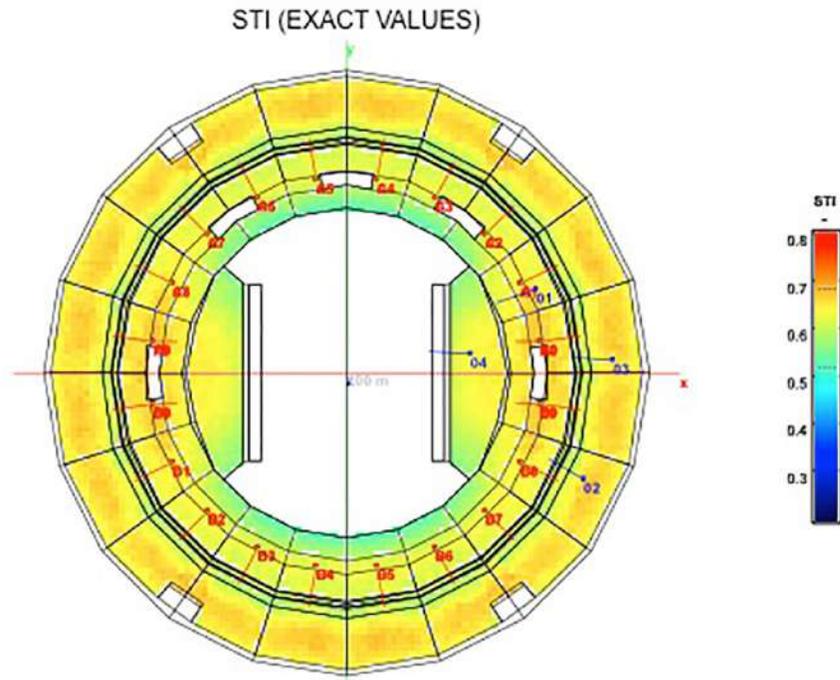
Barra Olympic Park was developed as Rio's primary 2016 Olympic and Paralympic Games competition center. Now it also serves as the city's largest sporting legacy. With an area of 1.18 million sq. m., Olympic Park includes nine sports venues. The Olympic Arena and Maria Lenk Aquatic Centre were built for the Rio 2007 Pan American Games. The seven new stadiums/sports venues are: The Olympic Tennis Centre, Aquatics Stadium and Rio Olympic Velodrome; plus: Olympic Hall 1 (basketball, wheelchair basketball and wheelchair rugby), Olympic Hall 2 (Olympic and Paralympic judo, plus wrestling and bocce), Olympic Hall 3 (taekwondo, fencing, sitting volleyball) and, Olympic Hall 4 (handball and goalball). Work on Olympic Halls 1, 2 and 3, plus the Tennis Centre began earlier.

The developers of this enormous Olympics complex retained WSDG to design the acoustics, sound and video systems for the 3 Tennis Arenas + practice fields (10,000, 5,000 and 3,000 seats); the 18,000 seat Aquatic Arena + Warm Up Pool; and, Audio and Video Systems for the COT Arenas (16,000 seat Basketball, 10,000 seat Judo and 10,000 Wrestling arenas).

All the systems were designed to meet international security standards and, Olympics Committee requirements. WSDG began the process by performing sophisticated electro-acoustic and modeling studies. The findings of these tests and procedures determined multiple solutions for each specific sound system. The primary goal was to insure the highest quality Speech Intelligibility and Sound Pressure levels. WSDG also designed large-scale Video Walls and Score Board screens, as well as Time Clock and Media Displays. Each unit was scaled to provide optimal visibility from every seat in the stands. Every Olympic Park stadium was created with 'future-proofing', for long post-competition service as Brazil's first Olympic Training Centre (OTC) and, South America's premium high performance athletic campus. The campus includes a research lab for nutrition, physiotherapy, sports and clinical medicine.



Rio 2016 – Barra Olympic Park - Rio de Janeiro, Brazil



Average STI of 0.63. Mean - Std = 0.6
No seats in the simulated area are lower than STI
0.5

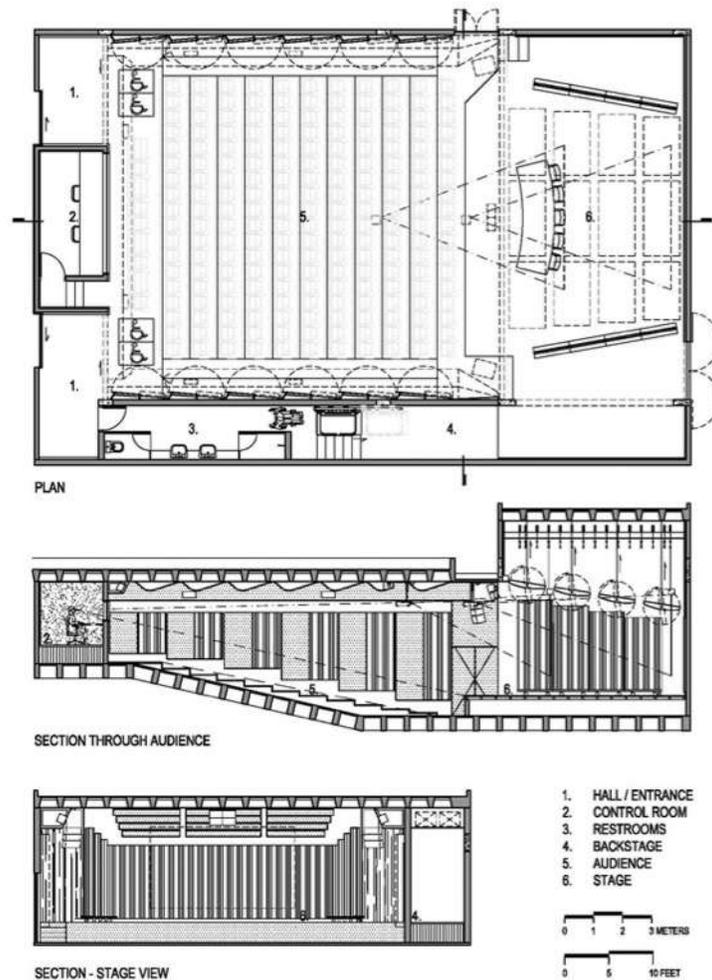


Inhotim Theater - Brumadinho, Brazil

Inhotim is the largest open-air museum of contemporary art in the world, located at Brumadinho a city nearby Belo Horizonte, Brazil. It has the most important contemporary art collections nowadays in the world. Besides that the foundation also works on cultural, social and environmental conscious projects and events.

They needed to expand the museum facility by adding a small world-class theater; WSDG was invited to meet the client's expectations for the new building. The 250-seat space was designed to accommodate various types of music presentations, plays and art-oriented movies.

To achieve that, a series of variable acoustic panels, including an acoustic orchestra shell were installed. WSDG was responsible for all the acoustic design including construction and integration of the 7.1 surround audio system.



Walters-Stork Design Group
Highland, NY

INHOTIM AUDITORIUM
BRUMADINHO - MG, BRAZIL

Inhotim Theater - Brumadinho, Brazil



Morro do Chapéu Residence - Belo Horizonte, Brazil

The architectural and acoustical design devised by WSDG for the villa's home theater and other living spaces leaned on solution suggested by the firms' professional recording studio expertise. Inhibiting sound from leaking into or out of sensitive listening areas such as recording studio live and control rooms is a WSDG specialty. The enclosed pool and spa area, however presented more troubling waters. Particularly challenging was the need for the acoustical treatments to unobtrusively compliment the custom finishes.

WSDG also designed a spacious (but cozy) home theater, which integrates the highest levels of audio and video technology. Recording studio-level, acoustical wall and ceiling treatments were engaged to provide superb frequency and time response. Bedrooms and a home office also benefitted from acoustical ceiling clouds, designed to control the reverberation time over a broad sound spectrum enabling each room's individual 5.1 surround sound and HD video system to deliver maximum performance quality.

The swimming pool and spa area, however, presented the project's primary acoustic challenge. The large area includes a gym, Jacuzzi and wet bar, surrounded by three walls of double height windows and a movable glass sealing system to maintain interior warmth in the cool, mountain region evenings. Again, professional recording studio design techniques provided solutions. Each window, including an expansive skylight grid of 20 individual panels was fitted with Acoustical Clearsorber Foil. Imported from Germany, the innovative translucent plastic sheets absorb medium and high frequency reverberation to resolve sonic reflection issues. Clearsorber also serves as a full room UV ray filtering system! Full transparency insures unimpeded views and, conversations free of traditional pool house reverberation.



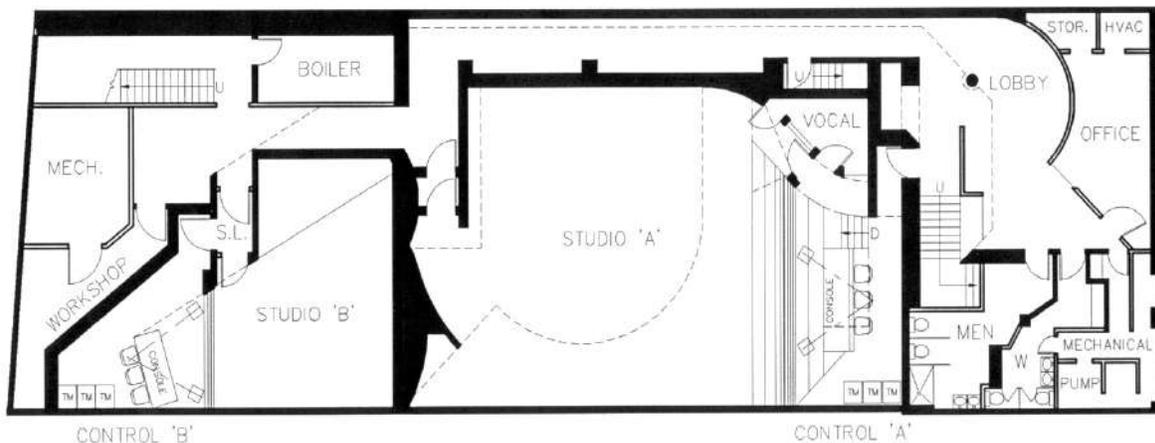
Morro do Chapéu Residence - Belo Horizonte, Brazil



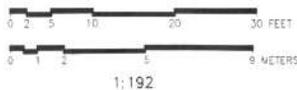
Electric Lady Studios - New York, USA

Electric Lady is one of the world's first artist owned recording studios and one of the oldest, most famous and most successful studios ever. WSDG co-founder John Storyk was a 22-year-old fledgling architect fresh out of Princeton University when he was hired to design a studio for Jimi Hendrix. One summer evening in 1968, Storyk was enjoying an ice cream cone and leafing through the Village Voice when a classified ad caught his eye: "Carpenters wanted to work for free on experimental nightclub." Dialing the number from a corner pay phone, he got the gig. That club, Cerebrum, made the cover of Life Magazine after 6 months. When Jimi Hendrix visited the club one night and decided to hire Storyk to design his club (which became ELS), well the rest is history.

Eddie Kramer (Jimi's engineer) was adamant about Electric Lady having a tall, bright room similar to NY's legendary A&R Studios where Phil Spector did some of his greatest work. Kramer was also familiar with European studios like London's Olympic and Abbey Road. He believed drums required a big room. Storyk accommodated Kramer's need for high ceilings by excavating the basement, digging down to raise the height of the underground rooms. For the studios' interior, Jimi specified theatrical lighting, and his desire to have as many curved surfaces as possible (design elements which Storyk had originally incorporated in Cerebrum). Electric Lady's walls were painted white, so they could easily be turned into whatever color Hendrix was in the mood for with simple adjustments. One day Jimi arrived at the construction site and decided that he didn't like the square look of the expensive acoustic doors, which had just been installed. He asked Storyk if he could round off the tops, and when that proved impractical, he had them replaced by custom units with rounded, porthole-style windows.



ELECTRIC LADY STUDIOS
NEW YORK CITY



Electric Lady Studios - New York, USA



La Cigale Sky View & Madison Piano Bar - Doha, Qatar

Adjacent to a large convention center, La Cigale, Doha's newest luxury hotel presents guests with a wealth of color, textures and creature comforts. And now, thanks to a full-blown acoustic makeover by WSDG, the hotel's sleek Piano Bar provides the ultimate listening (and speaking environment). With interiors graced by Murano chandeliers, and furnishings courtesy of Edra, Philippe Starck and Carlos Cruz-Díez, the 189 rooms, 36 suites, fitness center spa, indoor pool, restaurants and related accouterments in this one-of-a kind showplace have anticipated the needs of virtually every guest. Views, from the top floors of the nineteen-story building, sweep the cobalt day and nighttime star field sky above the desert surrounding this oil-rich city.

The hotel's only wrinkle was discovered in the sophisticated Madison Piano Bar and rooftop Sky View Terrace. Just prior to its formal opening, guests invited to a preview performance were rattled by a harsh acoustic anomaly. While no expense had been spared to insure the most tasteful and attractive surroundings, the contractor engaged to build the room was alarmingly lacking in acoustic expertise. As the performance began, the installed sound system immersed the room with music so abrasively loud that the walls began vibrating, and the guests were driven out by an intense dB tsunami. A similar problem was discovered at the Sky View venue. Because this club was set in an open-air rooftop environment, the reverberation issues were not as severe, but the inappropriate systems installation needed to be replaced, and additional acoustic treatments were required. This new "room-within-room" design stipulated 'recording studio-level' acoustic isolation treatments. The solutions included floating floor and de-coupled wall and ceiling construction, which effectively contain nightclub level loudness within the club and eliminate sound leakage to adjacent rooms. NC at the Apartments / VIP suites was above NC 55, with an average FSTC of 45, which was insufficient to contain the 110 dB of the sound system of the piano bar. WSDG achieved NC 28 (the number is also related to the HVAC noise), and most important eliminated low frequency leakage after the isolation solution. (FSTC +>70!) Similar isolation and electroacoustic levels were established for the Sky View.



La Cigale Sky View & Madison Piano Bar - Doha, Qatar



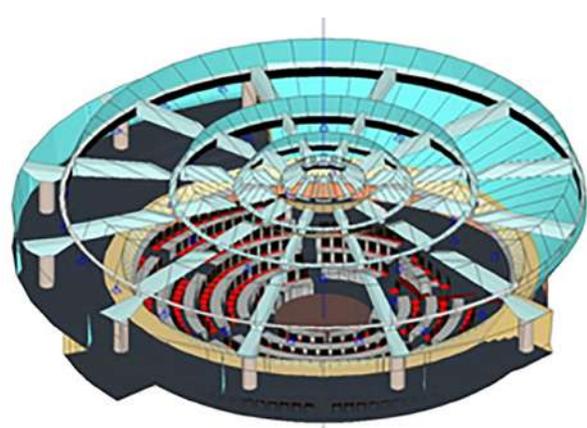
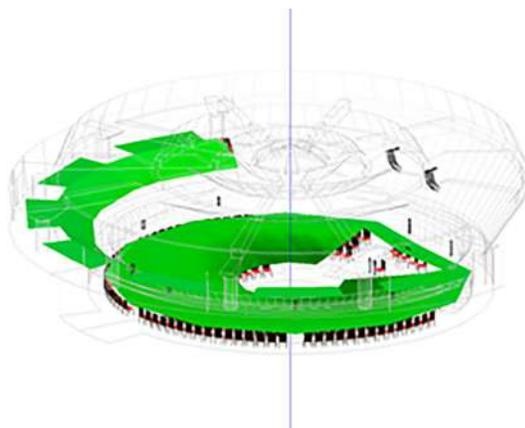
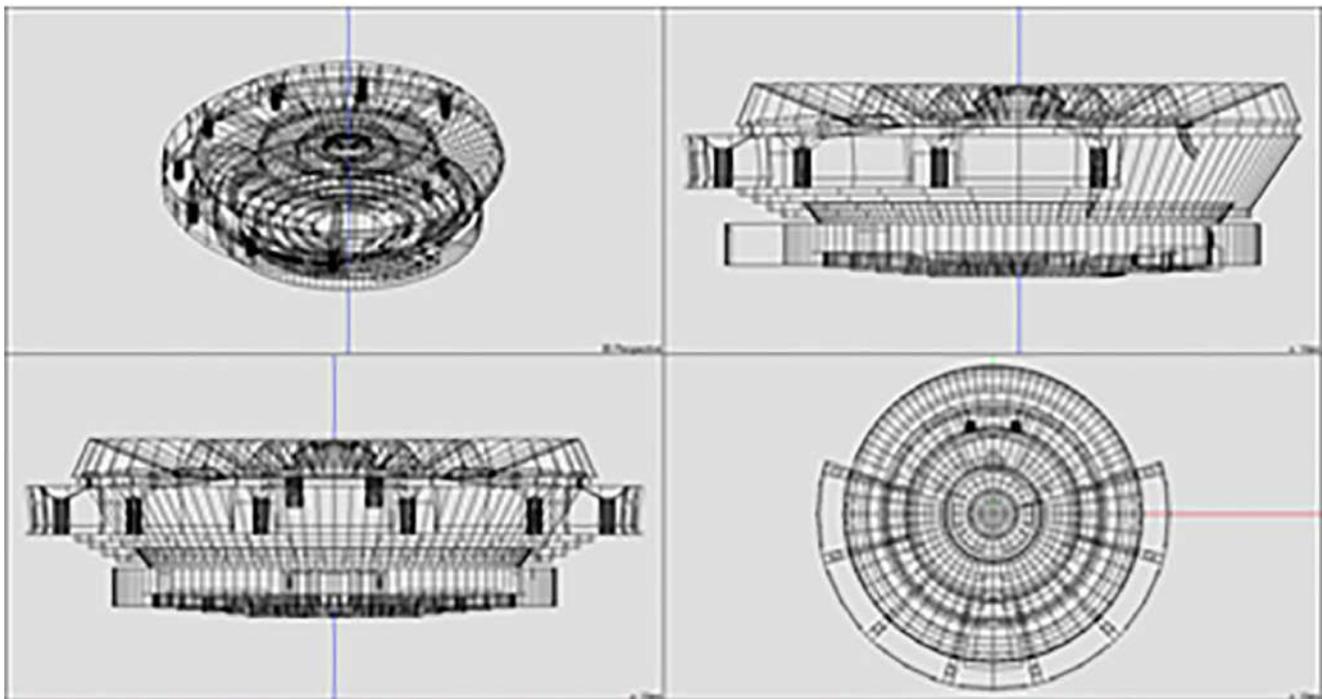
Parliament Hall Landtag - Düsseldorf, Germany

The Landtag of North Rhine-Westphalia is the state parliament (Landtag) of the German federal state of North Rhine-Westphalia that convenes in the state capital of Düsseldorf, in the eastern part of the district of Hafen. The parliament is the central legislative body in the political system of North Rhine-Westphalia. In addition to passing of laws, its most important tasks are the election of the Minister-President of the state and the administration of the government.

Fields of activities:

Basic and Technical Designs (all stages) for:

- Room Acoustics
- Electro Acoustical (Sound reinforcement)
- Media Systems Integration



Parliament Hall Landtag - Düsseldorf, Germany



Arena Thun Stadium - Thun, Switzerland

The Arena Thun is commonly referred to as the “jewel” in the Swiss Super League stadiums. With just over 10'000 seats the arena is compact, but outstanding by the unique location and a coherent architectural concept. There is hardly another stadium where the action is this close to the pitch.

For the moments before and after sports the Panorama Center shopping mall can be found immediately adjacent. The mall provides an area of 15'000 m² and offers everything your heart desires – from fashion to electronics, from leisure to home improvement.

Due to the restaurants, the generous garage and the comfortably appointed VIP rooms the facility is well suited for major cultural and sporting events, but also for conferences, banquets and many other occasions. The breathtaking Alpine panorama makes this place truly unique.

The WSDG designed room acoustics concerns all relevant areas, including the materialization of the stadium roof underside. This allows for an intense, inspiring community experience, while maintaining a comfortable intimacy, excellent speech intelligibility and a limited impairment of the neighborhood.

The WSDG designed electro-acoustic system allows an excellent, targeted supply of the stadium, circulation, and shopping areas with voice and music content. Fully digital signal distribution and control combined with permanent signal monitoring and redundancy of key components and network connections make the system compliant with the strict requirements for audio evacuation systems.

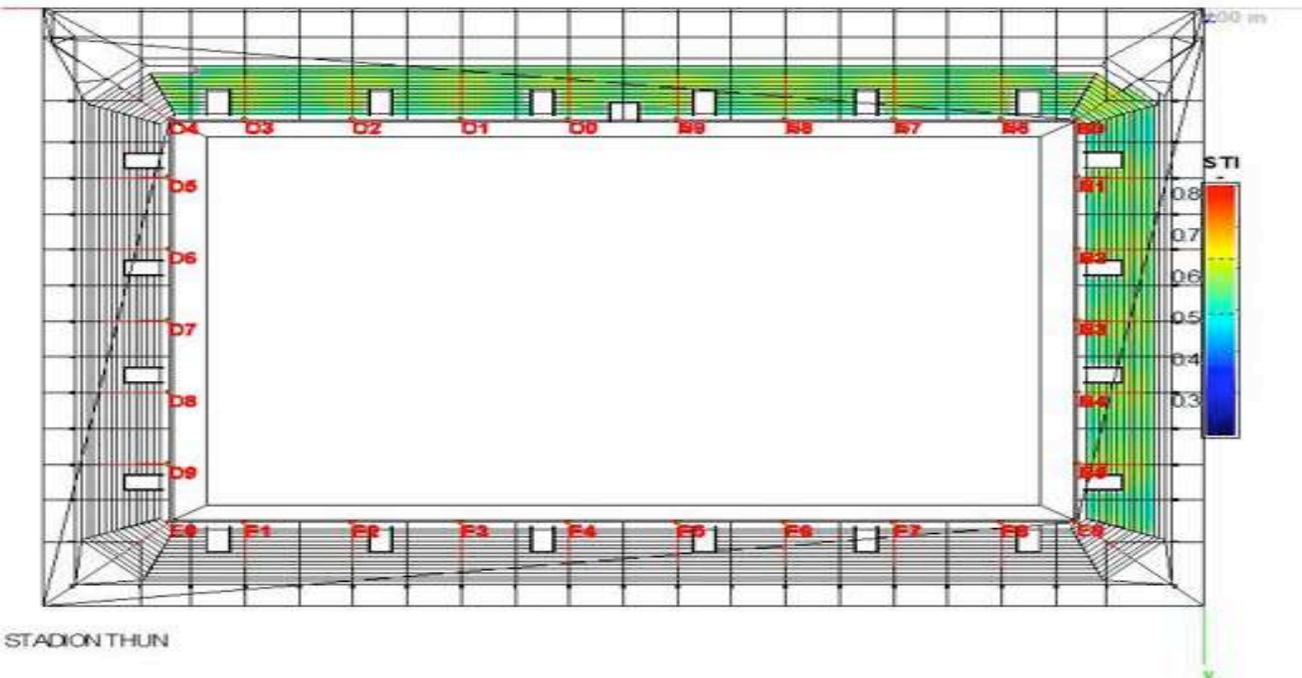


Arena Thun Stadium - Thun, Switzerland



STI original, masking on, [300000 rays (adapt), 3000 ms] (interference off)

Bkg [dB]: 96 100 95 91 88 84 81 -



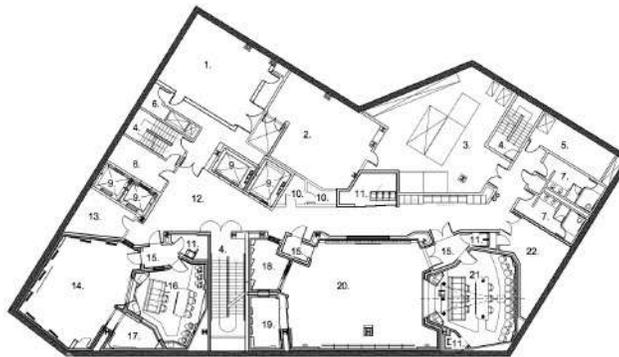
STI Distribution Model

Berklee College of Music – 160 Mass Ave - Boston, USA

For one of its latest real estate acquisitions, Berklee College of Music created *160 Massachusetts Avenue*, a 16-story, 170,000-square-foot mixed-use building. It houses dorm rooms with 350 beds, increasing Berklee's on-campus housing capacity to approximately 1,200 students, as well as a two-story dining hall that seats 400 and also includes a venue for student performances. Most importantly it is the new home for nine new audio production / teaching studios – housed in two levels below grade – all fully decoupled and capable of simultaneous use.

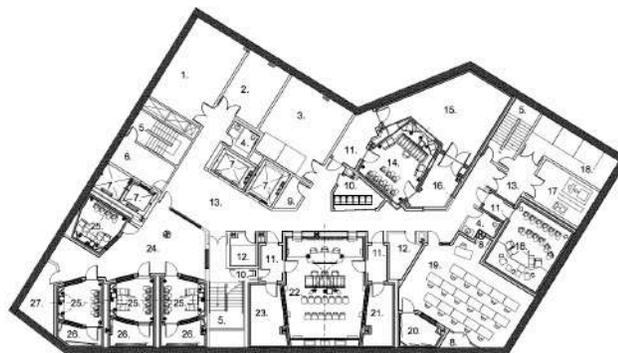
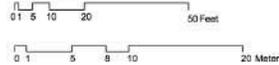
The music technology complex includes two professional-quality recording studios, a Dubbing Stage, a Mastering and Critical Listening lab, four production suites and a flexible performance venue / film scoring studio. WSDG designed and supervised construction of this facility in collaboration with chairs, deans, and technology lab staff from Berklee College of Music during a period of three years. Students can enjoy performance spaces that emulate professional environments, with state-of-the-art equipment and a wide variety of musical instruments.

In addition, WSDG worked on the two-story dining hall to address internal room acoustics, specifically with regard to the general intelligibility of the dining hall. The facility opened in 2014 and received a NAMM TEC award for Best Studio Design Project.



LEVEL B1 - FLOOR PLAN

- | | | |
|-----------------------|-----------------------|------------------------|
| 1. NSTAR VAULT | 9. ELEVATOR | 16. CONTROL ROOM 2 |
| 2. MAIN ELECTRIC ROOM | 10. ELECTRICAL CLOSET | 17. ISO 2 |
| 3. MECHANICAL | 11. EQUIPMENT CLOSET | 18. ISO 1.1 |
| 4. STAIRWAY | 12. CORRIDOR 1 | 19. ISO 1.2 |
| 5. MDF ROOM | 13. GENERAL STORAGE | 20. STUDIO 1 |
| 6. UTILTY/TE INS | 14. STUDIO 2 | 21. CONTROL ROOM 1 |
| 7. RESTROOM | 15. SOUND LOCK | 22. PERCUSSION STORAGE |
| 8. ELEVATOR LOBBY | | |

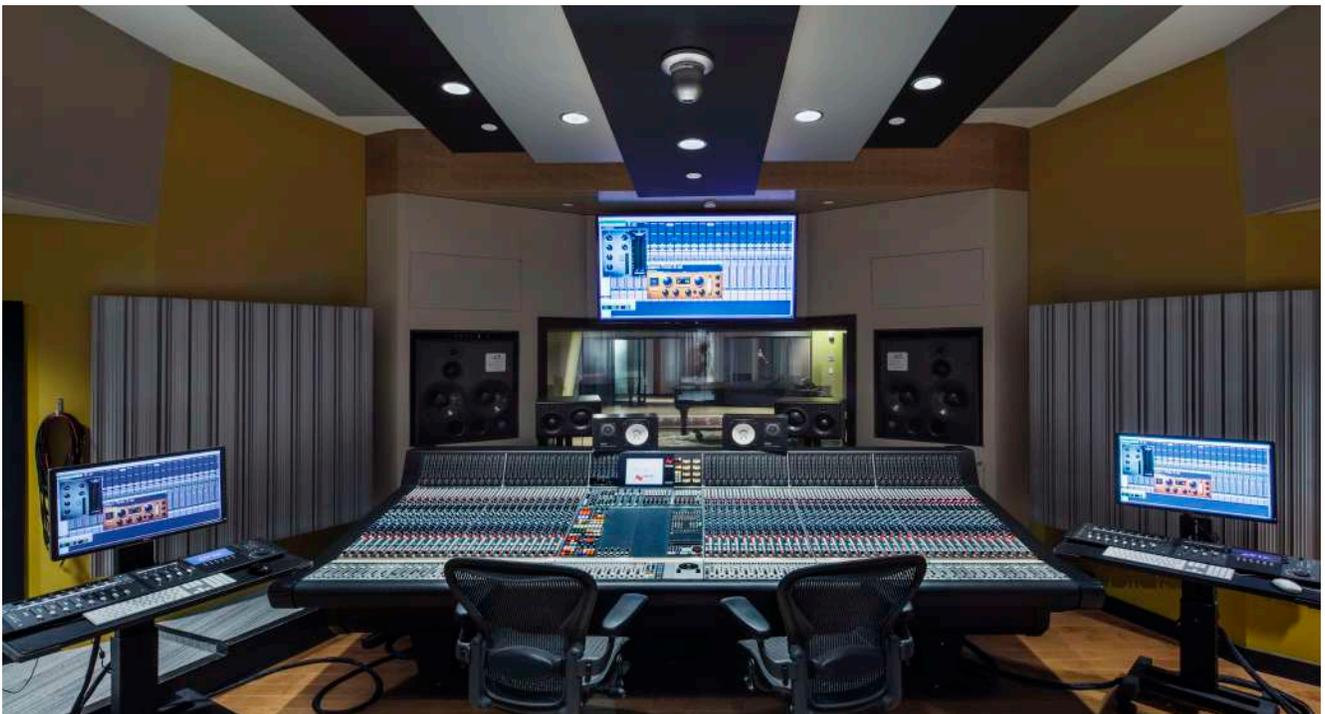


LEVEL B2 - FLOOR PLAN

- | | | | |
|--------------------------------------|----------------------|--|-----------------------|
| 1. FUTURE MUSIC TECH/GENERAL STORAGE | 8. CLOSET | 15. STUDIO 3 | 22. DUB STAGE |
| 2. GEN TANK | 9. ELECTRICAL CLOSET | 16. ISO 3 | 23. DUB - ISO 1 |
| 3. MECHANICAL | 10. EQUIPMENT CLOSET | 17. FIRE PUMP | 24. PRODUCTION LOUNGE |
| 4. RESTROOM | 11. SOUND LOCK | 18. MASTERING AND CRITICAL LISTENING LAB | 25. PRODUCTION CR |
| 5. STAIRWAY | 12. MECH. CLOSET | 19. TECH LAB | 26. PRODUCTION ISO |
| 6. ELEVATOR LOBBY | 13. CORRIDOR | 20. OVERDUB BOOTH | 27. STORAGE |
| 7. ELEVATOR | 14. CONTROL 3 | 21. DUB - ISO 2 | |



Berklee College of Music – 160 Mass Ave - Boston, USA



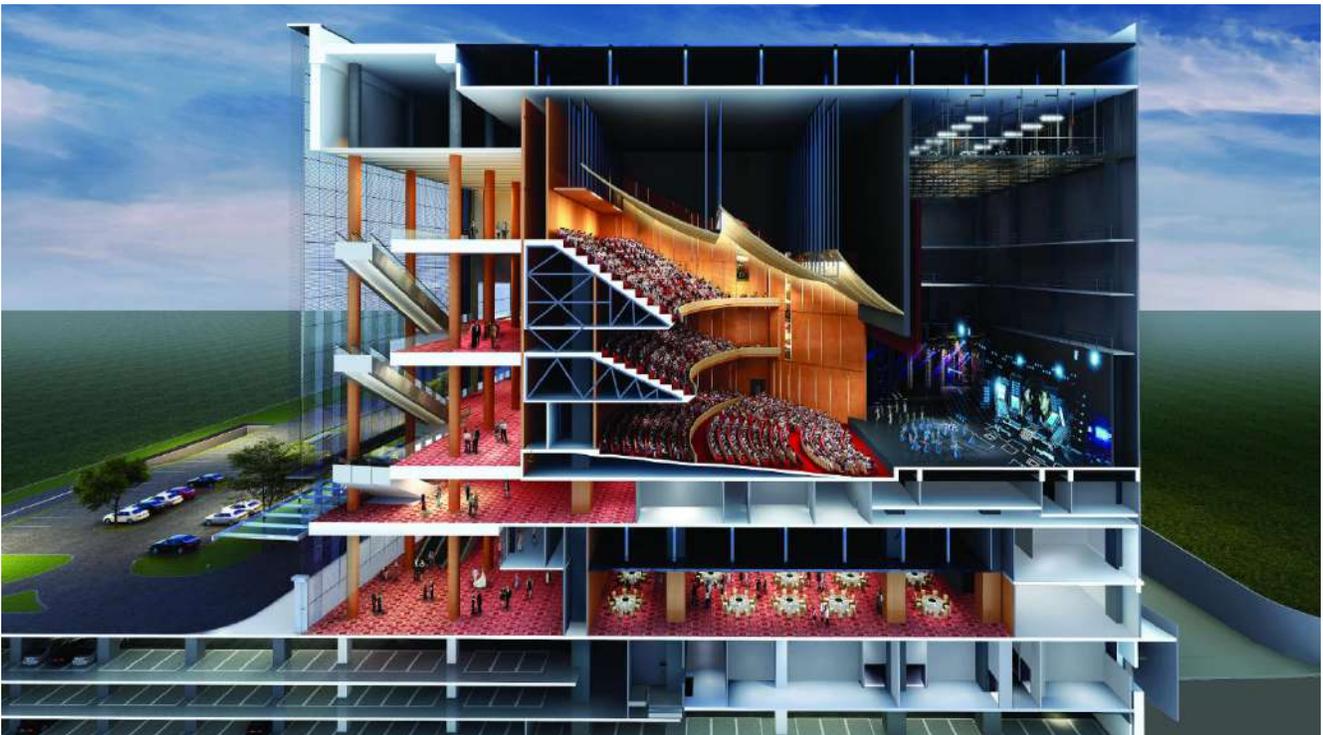
Jakarta International Expo - Jakarta, Indonesia

At 430,000 sq. ft. the new Convention Centre and Theatre at Jakarta International Expo (JIExpo) complex will be one of the largest and most forward thinking convention and entertainment centers ever built in Indonesia. When completed in late 2018, this unique venue will offer a wealth of business, entertainment and civic options to visitors from around the globe. In 2015 when CCM's JIExpo project received a green light WSDG (Walters-Storyk Design Group) was called in at the design stage to consult with Aedas, one of the world's leading architecture and design practices. The mandate was to create an acoustic environment conducive to world-class acoustical standards throughout the complex.

A bold and visionary concept, JIExpo was envisioned as a comprehensive multi-use facility. A vast 30,000 sq. ft. main ballroom has been designed with moving walls, which enable it to be sub-divided into three smaller configurations. A comprehensive business center features fourteen large multifunctional meeting / presentation / conference rooms and a junior ballroom (ranging in size from 970 sq. ft. to 9,000 sq. ft.) designed for conferences, conventions, special events, awards shows and high level exhibitions such as jewelry, wedding and real estate shows. Four luxurious private bridal suites were created to host bridal parties preparing for ballroom weddings. JIExpo's pièce de résistance is a next generation, 2,500-seat Broadway-style theater with three full balconies. An ingenious proscenium arch with moveable sidewalls can change the stage width from 60 ft. to a stunning 100 ft. with no space loss. And, a (12 ft. deep x 60 ft. wide) motorized platform set 11 ft. below floor level as an orchestra pit. Elevated to ground level it provides 39 additional priority seats. Raised to stage level it expands the performance area. The theater will set a new benchmark for live theatrical presentation. Collaborating with Aedas at the design stage enabled WSDG to develop a structural and room acoustic program capable of meeting the most stringent sonic quality and speech intelligibility criteria.



Jakarta International Expo - Jakarta, Indonesia

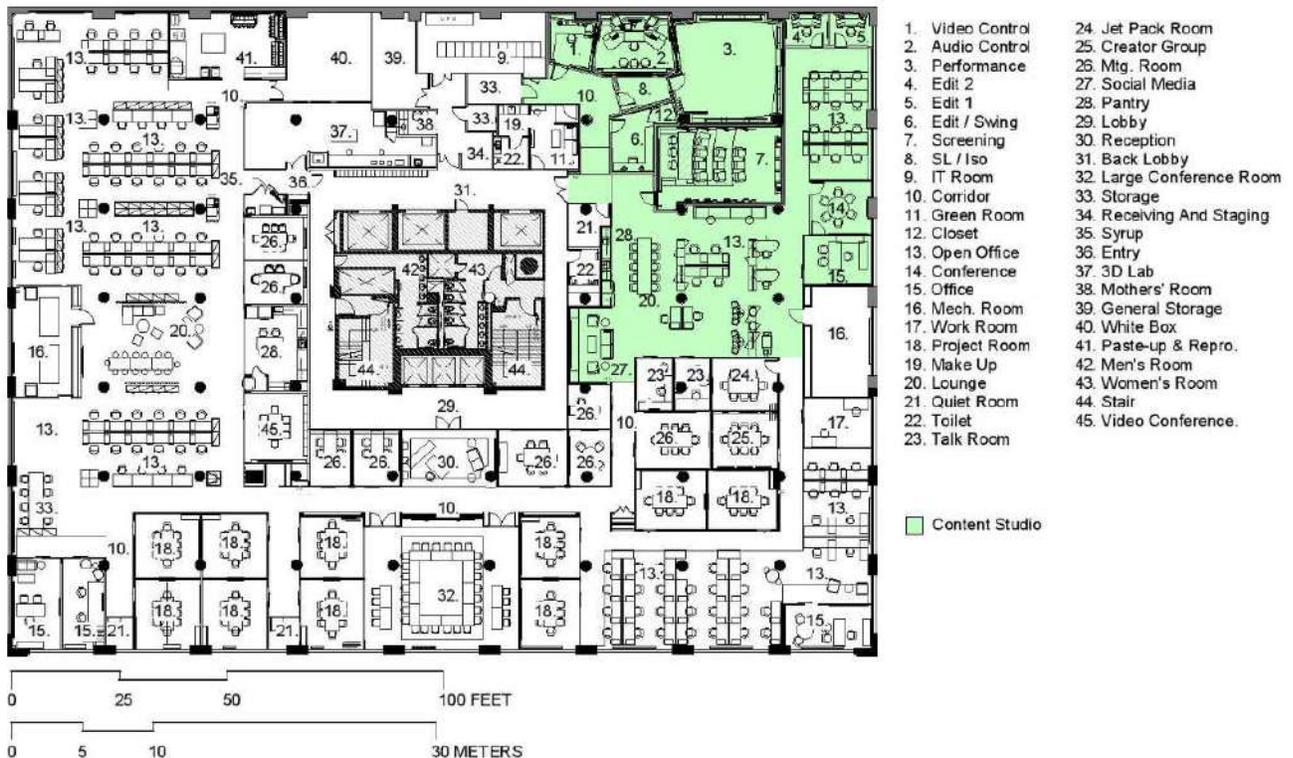


PepsiCo Content Studio - New York, USA

With the goal of initiating and nurturing synergistic relationships with new and established video, music, TV, digital and Internet content creators, PepsiCo commissioned a cutting edge 4,000 sq. ft. production/post-production complex at the hub of NYC's pacesetter SoHo artistic community. WSDG's architectural/ acoustical expertise was engaged to collaborate with Granoff Architects to create a technically flawless, aesthetically invigorating environment for the ambitious venture.

Designed to house a team of six to ten technicians and engineers, PepsiCo's Content Studio features an 1,150 sq. ft. multi use recording studio, five editing and production bays, a 575 sq. ft. soundstage, a 515 sq. ft. multi-format screening room, an 1,800 sq. ft. 'loft-like' creative bullpen and a spacious, informal reception/dining area. The concept was to establish a high tech production facility to provide a community of creative thinkers, artists and producers with the technological resources to foster their vision.

A striking, flexible, highly functional environment, the PepsiCo Content Audio Recording Studio is centered on an SSL AWS 948 console, complimented by a pair of soffit-mounted ATC SCM150ASL stereo monitors. Genelec 8250A monitors provide 5.1 – surround playback. A variety of outboard gear and mic preamps offer a wide range of options. Video is captured on the 26' x 25' Soundstage/Performance Area in resolutions up to 4K, and can be routed live throughout the facility in 1080p through SDI tie lines. A broadcast grade production switcher (Newtek Tricaster 460) expedites video feeds for live editing and processing for webcast, or to be stored in the Promax storage array. The switcher offers a full selection of video post-production tools, including live Chroma keying, virtual sets and color correction. Post also boasts a full nonlinear editing station and a digital audio workstation for ADR. Green Screen and LED production lights are managed from the VCR.



PepsiCo Content Studio - New York, USA

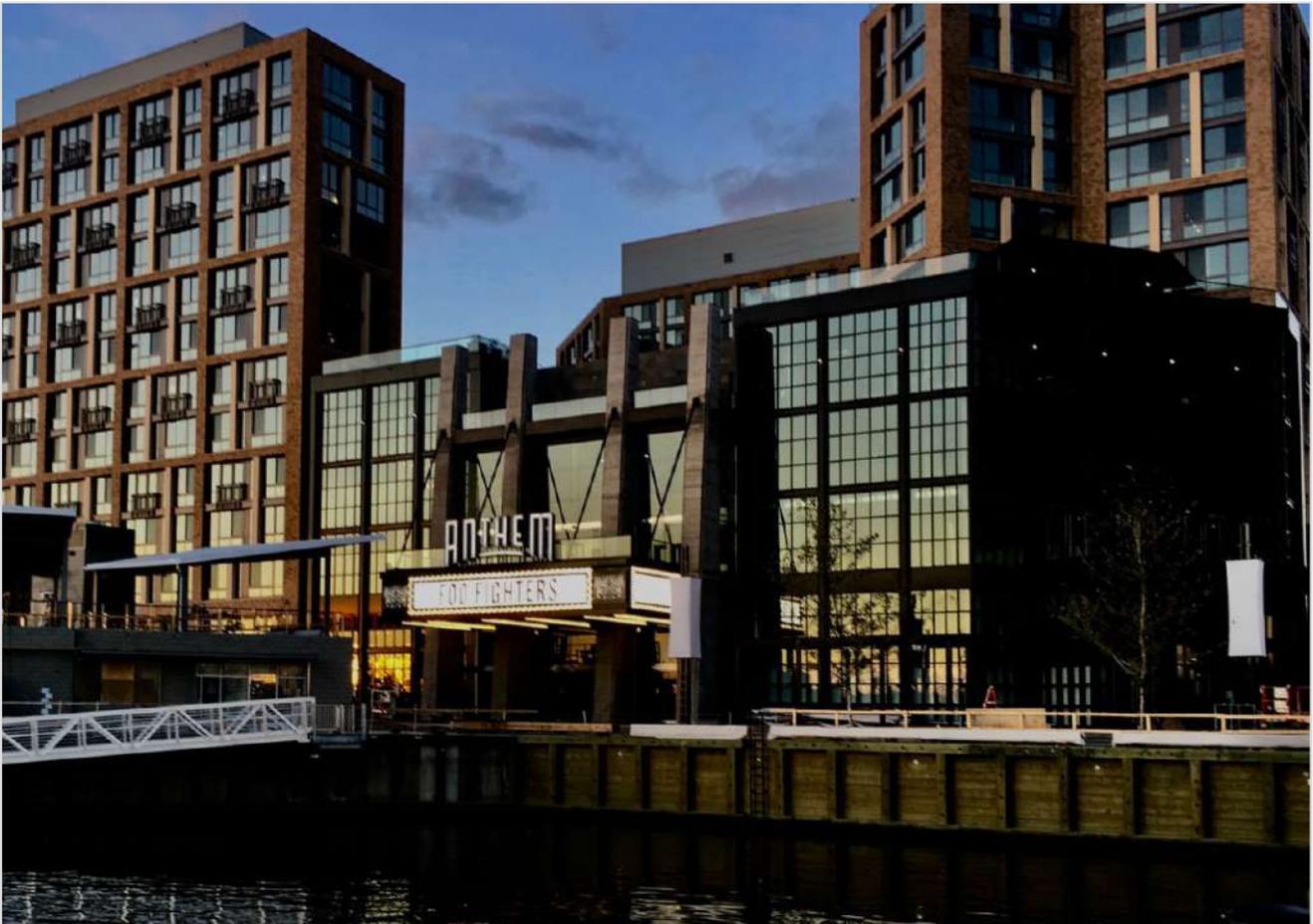


The Anthem - Washington DC, USA

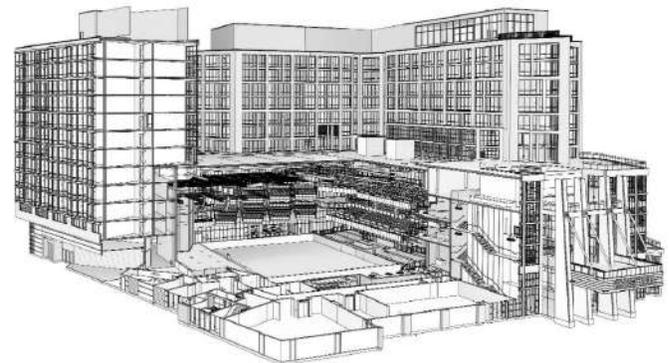
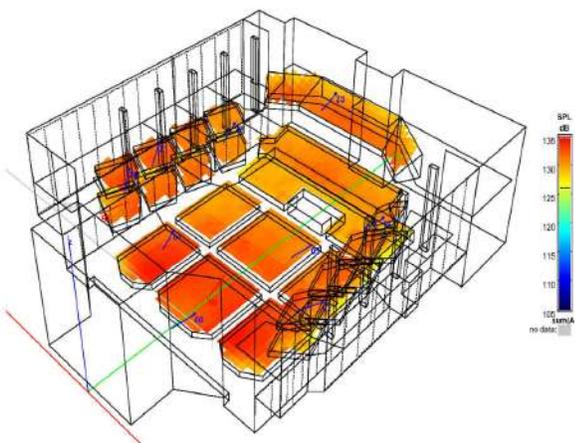
An extraordinary new venue set on the shores of the Potomac, The Anthem, is a game-changing, multi-tiered concert hall created by impresario, Seth Hurwitz. While his iconic D.C. 9:30 Club featured intimate performances by legendary acts like Iggy Pop, Nirvana, and Dolly Parton, The Anthem is scaled to host up to 6,000 fans on its expansive dance floor and two tiers of balcony-seating. A key component of The Wharf, a \$2.5 billion waterfront development, The Anthem will provide an epic setting for extraordinary concert experiences featuring artists ranging from Foo Fighters and The Killers to LCD Soundsystem and Lorde.

To support Hurwitz's commitment to providing fans with flawless acoustics, WSDG's U.S. and Swiss Architectural/Acoustical Design & Media Systems Engineering team employed extensive room modeling programs, and a variety of Acoustical measurements and instrumentation tests beginning in 2014 at the project's earliest design stage. Hurwitz has relied on WSDG acoustic expertise throughout his 35-year career, for both the 9:30 Club and his Frank Gehry-designed, Merriweather Post Pavilion. Experience taught Horowitz that creating an optimal listening environment required designing the acoustics prior to construction. Exhaustive WSDG research was also devoted to insuring sound isolation to maintain quietude throughout the complex's residential sector.

To fine tune the meticulously pre-planned hall, WSDG recommended the installation of strategically positioned Helmholtz absorbers, and a selection of medium density rear wall broadband absorbers calibrated to enhance a wide range of performance styles. The electroacoustic arsenal employed arrays of flown Left and Right arrays, with the option to use Center and Front Fill speakers and a directional subwoofer array for even low frequency distribution.



The Anthem - Washington DC, USA



Electro Acoustics - L/R Array SPL Distribution
The Anthem
Washington, D.C.



The Anthem
Washington, D.C.

Zurich Firm - Zurich, Switzerland

Architect Nadja Zürcher designed a series of all-glass conference and huddle rooms for a top Zurich-based firm, and commissioned WSDG to do acoustic consulting, treatments and A/V integration for these spaces as well as in the surrounding office space to create rooms that were comfortable to hold meetings and video conferences in, as well as spaces where employees can work comfortably and quietly in the open office space.

The office space is 27,000 square feet in total, with a large amount of open office space. The conference and huddle rooms were designed to be transparent to take advantage of natural light as well as be aesthetically pleasing. Two large conference areas were designed, as well as several smaller huddle rooms for video conferencing and more private meetings. It was also requested that WSDG treat the areas in the open office space to ensure a calm work environment outside of the conference/huddle spaces.

The two large conference rooms are 430 square feet apiece and feature very efficient sound-absorptive curtains and ceiling materials in order to achieve the desired acoustic environment and ensure superior speech intelligibility and a calm, echo-free conversational environment for video conferencing purposes. The walls were deliberately designed non-parallel in order to cut down on reverberation. The huddle rooms are 160 square feet apiece and benefit from the same treatment. All of the spaces also use a heavily absorptive 4-inch-thick metal cooling ceiling to ensure that the spaces are comfortable from a temperature standpoint as well as a sonic one. Finally, all of the rooms are full integrated with A/V equipment for presenting and video conferencing.

The areas outside of the conference/huddle spaces also include acoustically treated ceilings to dissipate sound in order to ensure quiet open office areas.



Zurich Firm - Zurich, Switzerland



TV Globo - São Paulo, Brazil

Founded in 1965 by the journalist Roberto Marinho, Rede Globo is the largest television network in Latin America, known around the world for its journalism crew, soap operas and television series productions. Ever-conscious of their place in the national and international broadcast market, TV Globo is constantly investing in infrastructure and equipment throughout the facility.

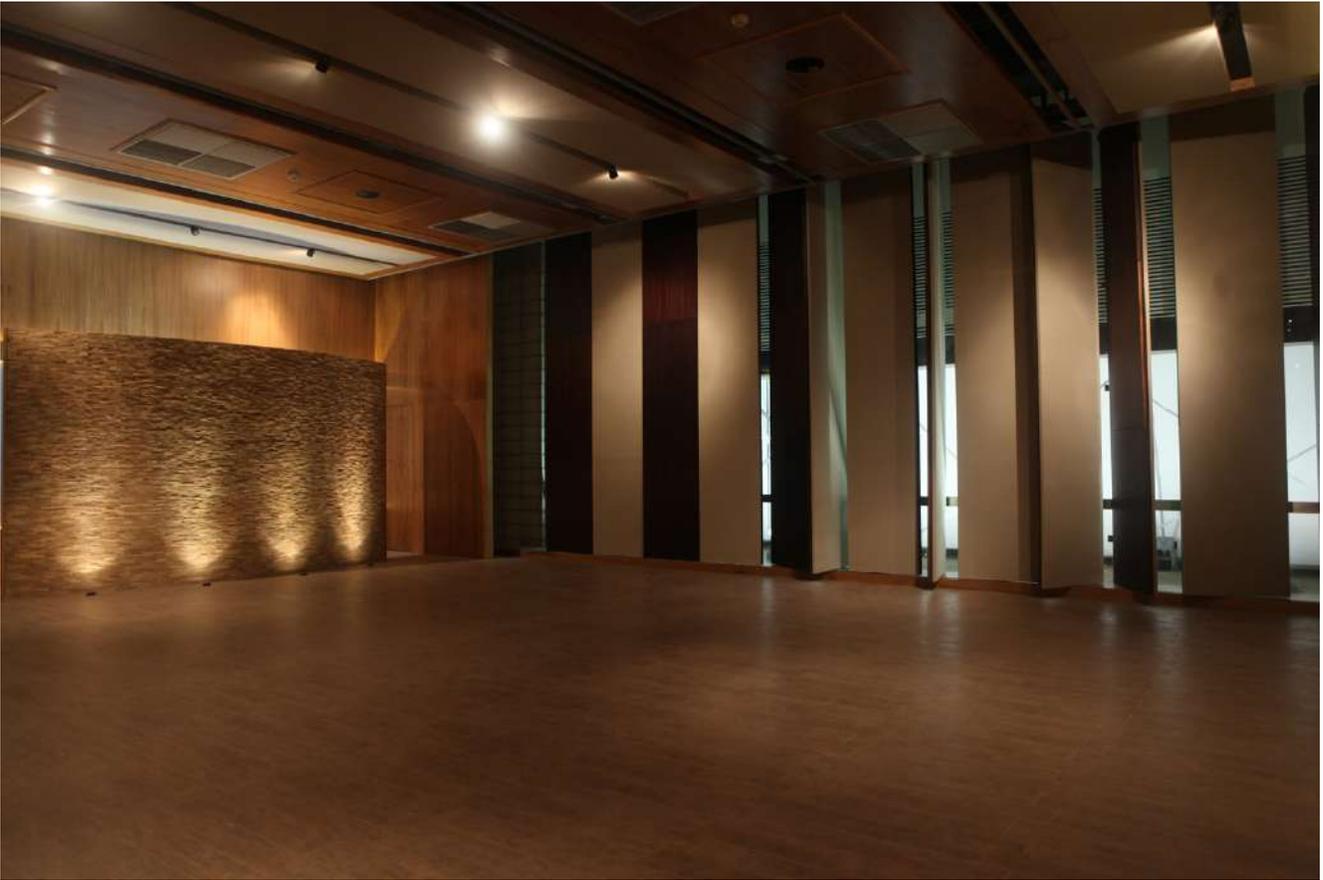
WSDG was invited to provide the architectural-acoustical design for the various types of production and post-production studios of the new CPP2 building, located at PROJAC in Rio de Janeiro, representing the largest television production center in Latin America.

As part of the renovation, WSDG also had the privilege to provide the acoustical construction services for all spaces involved in the design process for the last five years.

In the city of São Paulo, TV Globo has also been going through recent renovations in order to keep their technology up to date for the new demands of HD television. WSDG has been working on the design and construction of the Video Control Rooms as well as Audio HD and Surround Audio mixing rooms.



TV Globo - São Paulo, Brazil

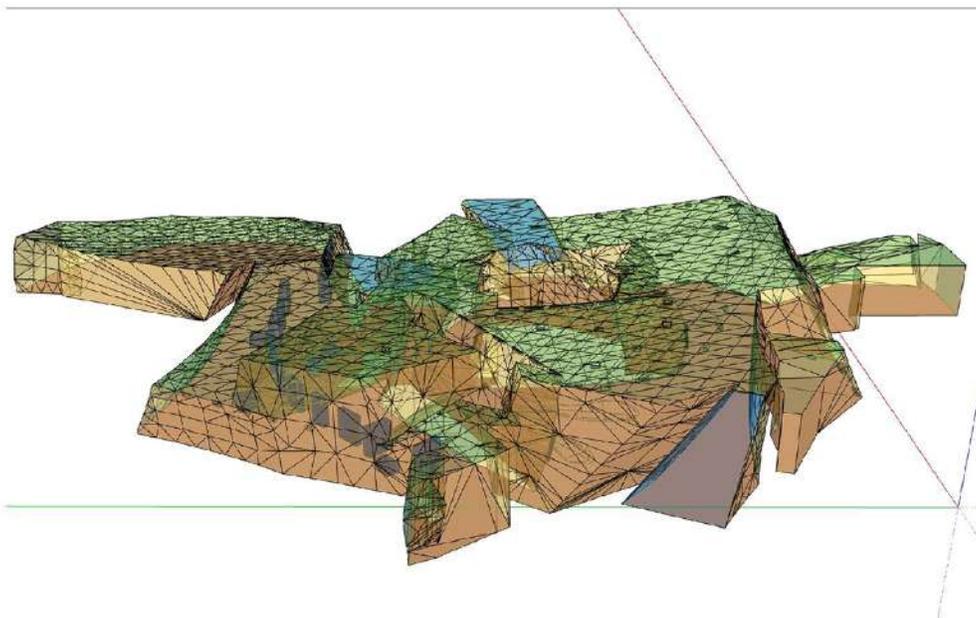


National Museum of Qatar - Doha, Qatar

The National Museum of Qatar was designed by architect Jean Nouvel. The 430,000 square foot building, which consists of a series of interlocking discs that resemble a desert rose, houses a collection of immersive multi-media exhibits that combine video projections, sound, and other sensory stimuli to expose visitors to Qatar's history and culture. The 3-D audio design for the exhibits was created by Swiss firm Idee und Klang.

Due to the unique construction of the building and the demanding sonic concerns of the exhibits, Idee und Klang contracted WSDG to create a 3-D acoustic model of the space and make recommendations regarding appropriate speaker usage and placement to maximize the effectiveness of the audio and minimizing the amount of spillover between exhibits without compromising the aesthetics of the museum.

The project took two years from conception to completion. WSDG Project Engineers Robi Hersberger and Christoph von Hollaky visited the space while it was under construction to measure its acoustic properties and determine its suitability for immersive audio. Due to the usage of acoustic plaster in the construction of the museum's ceilings and its irregular shape, WSDG determined that the rooms would be suitable for this and were able to recommend the best speaker implementation for the project. Von Hollaky then built the 3-D acoustical model allowing WSDG to create accurate acoustic simulations and begin to determine the type, number and positioning of speakers. WSDG recommended the use of Meyer UP-4slim, UPM-1P, Ashby 8C, and Amie Subs due to their effective compromise of size and power, and the speakers were installed in both the ceilings and around the projection areas to create an immersive sound field.



National Museum of Qatar - Doha, Qatar



UCLA Herb Alpert School of Music – Lani Hall - Los Angeles, USA

Established by a grant from the Herb Alpert Foundation, The Herb Alpert School of Music on the UCLA campus is dedicated to providing students with academic opportunities that balance cutting-edge scholarship with sophisticated performance and composition mastery. Students are immersed in a multitude of learning and performing opportunities and have access to world-class archives and related study options. The missing link to this extraordinary musical education experience was a live performance venue with acoustic properties devised to provide artists with exceptional sound alternatives.

To meet this critical requirement, The Herb Alpert Foundation engaged WSDG to fully re-design the interior and acoustics for the small on-campus theater. The recently completed venue has been christened Lani Hall in honor of Grammy-winning vocalist (and co-founder with husband Herb Alpert of the foundation which bears his name) accommodates both musical and theatrical presentations. The 135 seat auditorium features a raised stage, innovative perforated wood rear and sidewall acoustic treatments and three innovative, full-width cylindrical ceiling treatments deployed above the stage. Outfitted with six multi-positional perforated gobos to provide the variable acoustics required by diverse performing artists and instrumentalists, the stage offers classic performance options.

Matthew Ballos, WSDG partner and co-designer of Lani Hall with founding partner John Storyk, reports that the tubular overhead wooden stage treatments, are complimented by twin ‘rounded’ wooden ceiling cloud/lighting fixtures, positioned over the audience seats, to further enhance listener audio quality. An elegant, cantilevered wooden rear wall diffuser fine-tunes the theater into an auditorium-size ‘sweet spot.’



UCLA Herb Alpert School of Music – Lani Hall - Los Angeles, USA



Magazzino Italian Art Gallery - Cold Spring, USA

When American art-collector Nancy Olnick, and her Sardinia-born husband, Giorgio Spanu found their extensive collection of modern art had grown beyond the capacity of their two homes they considered options for sharing their collection with a wider audience. A search for a suitable repository for their 500+ assemblage led them to a 14,000 square-foot steel and concrete former industrial warehouse (circa 1964) nearby their Garrison, NY weekend home.

Olnick and Spanu acquired the building for \$12 million, and retained leading architect Miguel Quismondo to create a spacious, light filled gallery to appropriately exhibit their collection. Quismondo brought Alberto Campo Baeza, another noted Spanish architect on board as Construction Manager/Project Liaison. As Magazzino neared completion, its mandate was expanded to include a program of ambitious summertime International Art Film Screenings in the building's 3000 square foot courtyard. When the architectural team recognized the need to address challenging acoustic issues, they engaged prominent NY-based/global architectural/acoustical experts WSDG to recommend and integrate a comprehensive equipment package.

WSDG Project Manager Jonathan Bickoff reports that he and Founding Partner John Storyk performed several site visits and immediately recognized the primary acoustic issue. The rectangular courtyard was constructed of hard reflective surfaces. "We took extensive auditory measurements that guided us in developing a strategy for a diverse range of outdoor museum presentations. And, we worked closely with top Saugerties, NY-based pro audio-video supply firm, Markertek to customize the most efficient, reliable and cost-effective technical system, in a compact, easy to set up and breakdown configuration. The portability of the package was demonstrated when a surprise storm required it to be disassembled and moved indoors in under 10 minutes!" "We were privileged to have applied our expertise to Magazzino's program presentation needs," John Storyk concludes. "This gallery represents an important new asset to our Hudson Valley community," Nancy and Giorgio's extensive collection features works by many brilliant contemporary Italian artists. Their new gallery is a welcome addition to an extraordinary group of Hudson Valley Art Destinations that includes the Storm King Art Center and Dia: Beacon. We are extremely fortunate to have them as friends and neighbors."



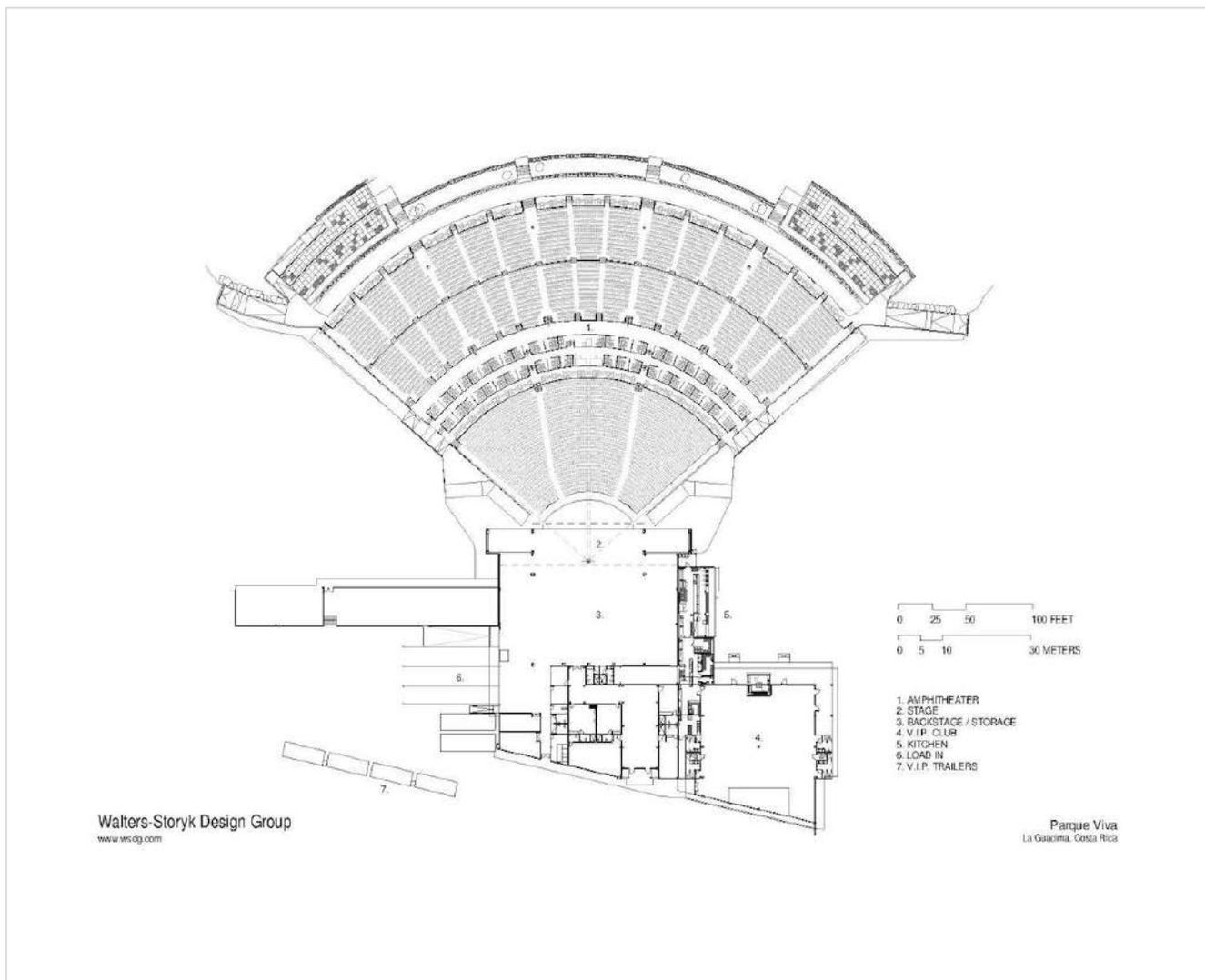
Magazzino Italian Art Gallery - Cold Spring, USA



Parque Viva - La Guacima de Alajuela, Costa Rica

Viva Park, Central America's first sports/entertainment/corporate events center is built on the 300,000 m² / 3,229,173 ft² grounds of a former auto racetrack. The venue creatively combines three separate attractions within a picturesque, estate-like setting. The Amphitheater is designed to host audiences of up to 16,000 fans for rock shows and other live performances. The Convention Center/Exhibition Hall is ideal for trade shows, and the original outdoor track has been redesigned to accommodate auto sports, running and cycling events. Featuring a variety of dining options, Viva Park represents an exceptional option in contemporary entertainment.

The ambitious project was conceived and developed by Bliss Entertainment, a recently formed, Costa Rican business initiative. Recognizing the need to insure impeccable music/performance audio quality and flawless speech intelligibility for Viva Park's three primary attractions, Bliss retained Jaime Molina, principal of leading Costa Rican Project Management firm, ICC. Molina engaged architectural/ acoustical experts Walters-Storyk Design Group-WSDG, to design performance audio and public address systems to insure the highest quality sound distribution for the venue.



Parque Viva - La Guacima de Alajuela, Costa Rica



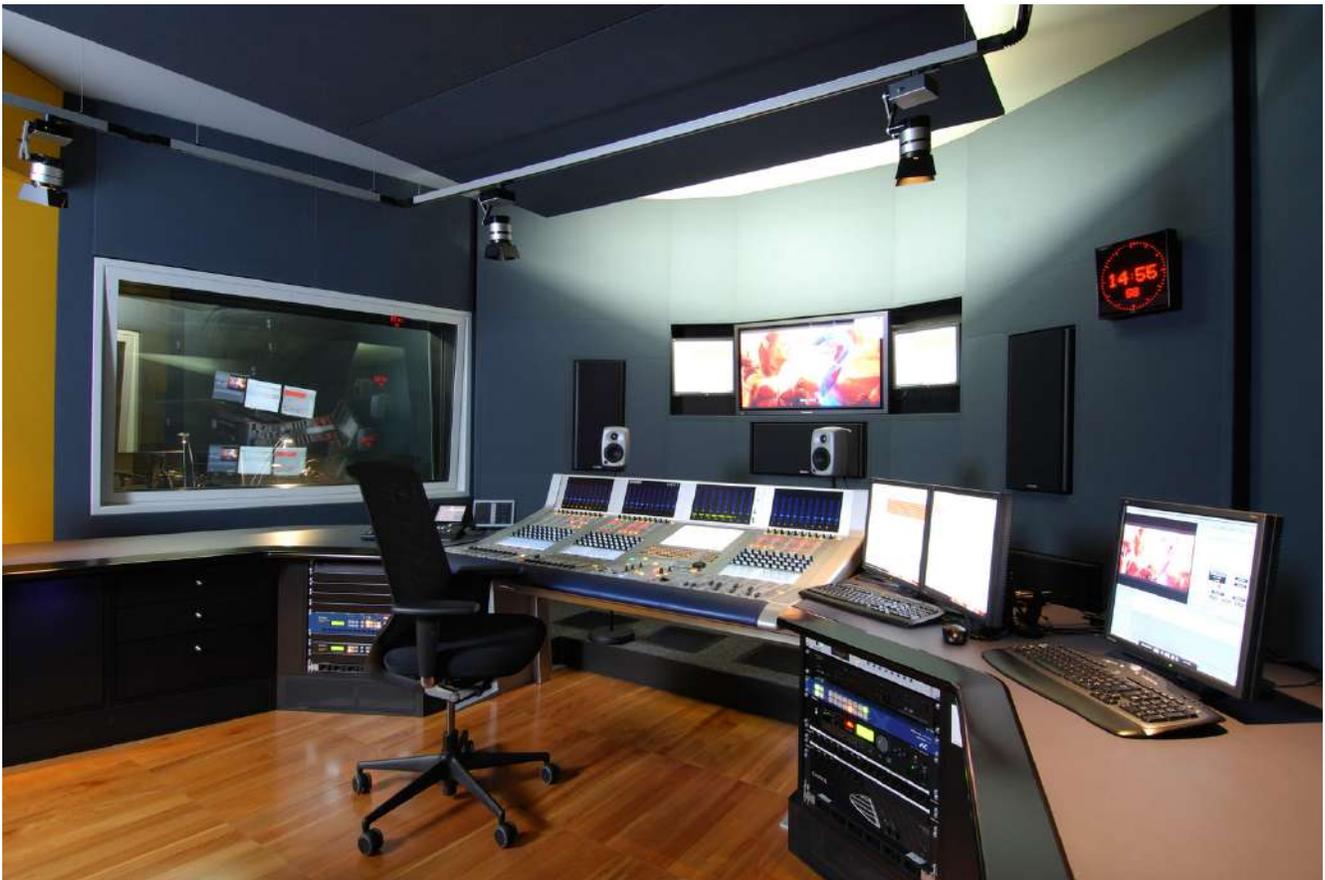
TSR – Télévision Suisse Romande - Geneva, Switzerland

Télévision Suisse Romande (TSR) is Switzerland's national broadcaster for the French speaking section of the country. This beautiful and peaceful area with cities and villages as renowned as Geneva, Gruyère or Montreux is home to a national and international mix of personalities, some of them well-known celebrities such as Phil Collins or Michael Schumacher.

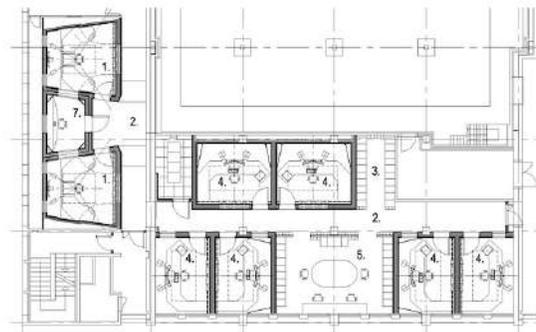
The TSR tower, which happens to be the highest building in the city of Geneva and visible citywide, was originally built in the 70s and served as the original home for the audio rooms, a number of other technical facilities, as well as offices. The tower is scheduled for a complete overhaul over the next few years, and the technical facilities therefore needed to be re-located to other buildings on the TSR campus. In parallel with the new construction, the entire technological infrastructure was overhauled as well – in fact, the TSR facilities are now prepared to take the step towards completely tapeless operation.

The audio production facilities consist of two large (40 square meters) 5.1 control rooms with an attached isolation booth each, used for TSR's in house productions (straight-to-air as well as pre- or post-produced audio content and a highly acclaimed DVD publishing arm) and external clients as well. In addition, two medium-sized (20 square meters) multi-purpose control rooms are available with one shared isolation booth and a total of six sound design suites. The sound design suites are accompanied by a large CD discography and an open office area for the respective library management and personnel.

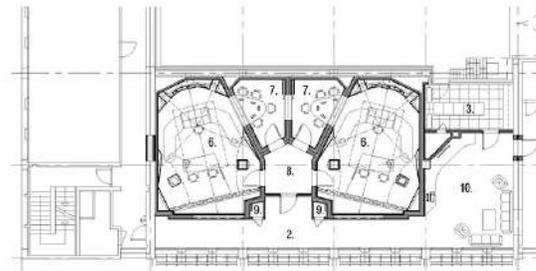
The audio rooms are laid out on two adjacent floors that connect by stairways on both ends of the floors. Each floor has a dedicated Machine Room with independent climate control, a backup cooling system, fire repressing systems and emergency electrical power facilities. The first floor offers a leisurely lounge for TSR personnel, clients and guests.



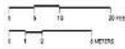
TSR – Télévision Suisse Romande - Geneva, Switzerland



FIRST FLOOR PLAN



SECOND FLOOR PLAN



Walters-Stork Design Group
Highland, NY

- 1. MULTIPURPOSE AUDIO
- 2. CORRIDOR
- 3. GYM
- 4. SOUND DESIGN
- 5. OFFICE / CD STORAGE
- 6. AUDIO POST
- 7. ISO BOOTH
- 8. SOUND LOCK
- 9. CLOSET
- 10. LOUNGE

TSR GENEVA
GENEVA, SWITZERLAND

Pangu 7 Star Hotel - Beijing, China

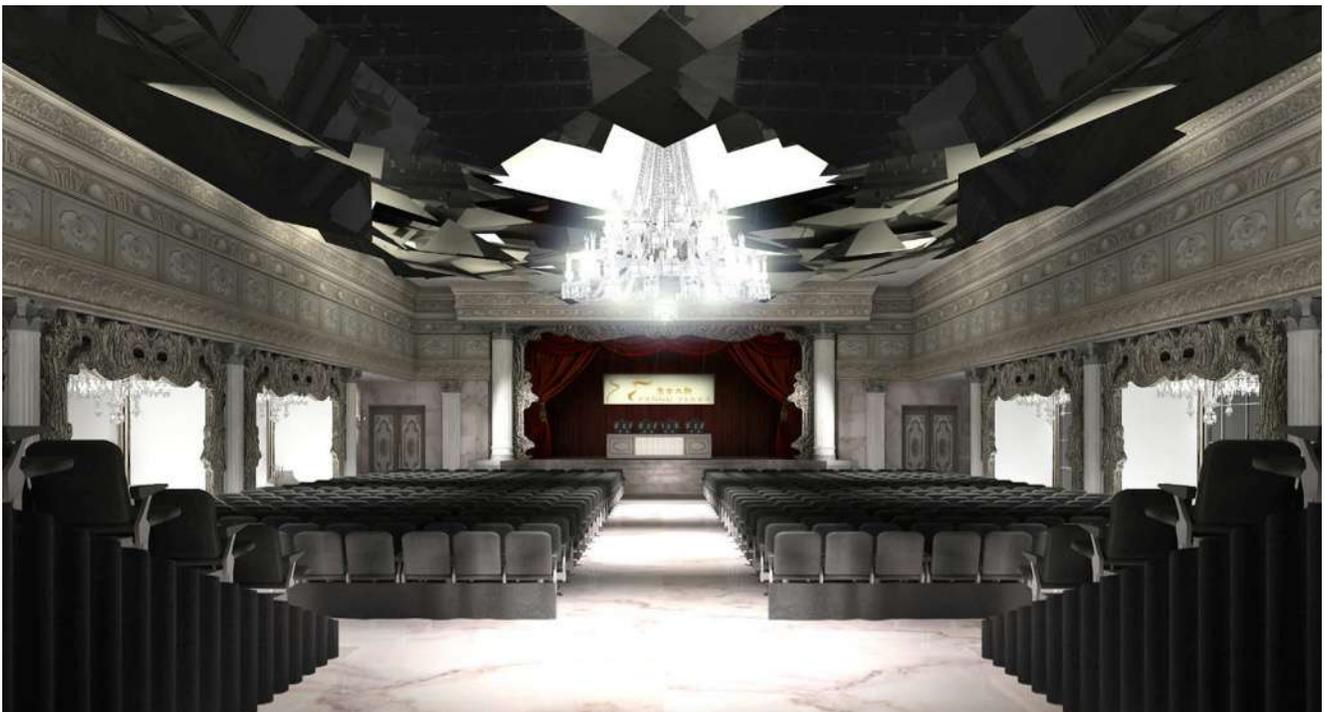
Beijing's Pangu 7 Star Hotel is the latest masterpiece by world-renowned architect C.Y. Lee, creator of the iconic Taipei 101 story World Financial Center. The five tower complex features lavish hotel suites and private residences, a world-class office building, deluxe restaurants, conference rooms, and breathtaking views of the 2008 Olympic Park and 680 ha/1680+ acre National Forest Preserve.

The Pangu 7 Star Hotel is distinguished by 140 elegant suites, including a palatial, one of a kind Presidential Suite and, 84 Grand Deluxe, Premium Deluxe and Premium luxury rooms. Two column-less ballrooms, Pangu (400 guests) and Grand (500 guests), and five meeting rooms, and a host of personal services, including TechnoGym fitness, spa and indoor pool, and 24-hour in-room butlers, further enhance the amenities. The 45-story office tower is furnished with a full complement of sophisticated meeting rooms, and equipped with state-of-the-art audio/video communication technology.

Mindful of the critical need to control sound pollution in this hyper-luxurious environment, the architects engaged WSDG at the earliest design stage to consult on acoustics. Plans and drawings were scrupulously diagnosed, by WSDG's international organization to provide expert counsel on avoiding sound leakage, reverberation, HVAC, elevator, generator, and related noise issues.



Pangu 7 Star Hotel - Beijing, China

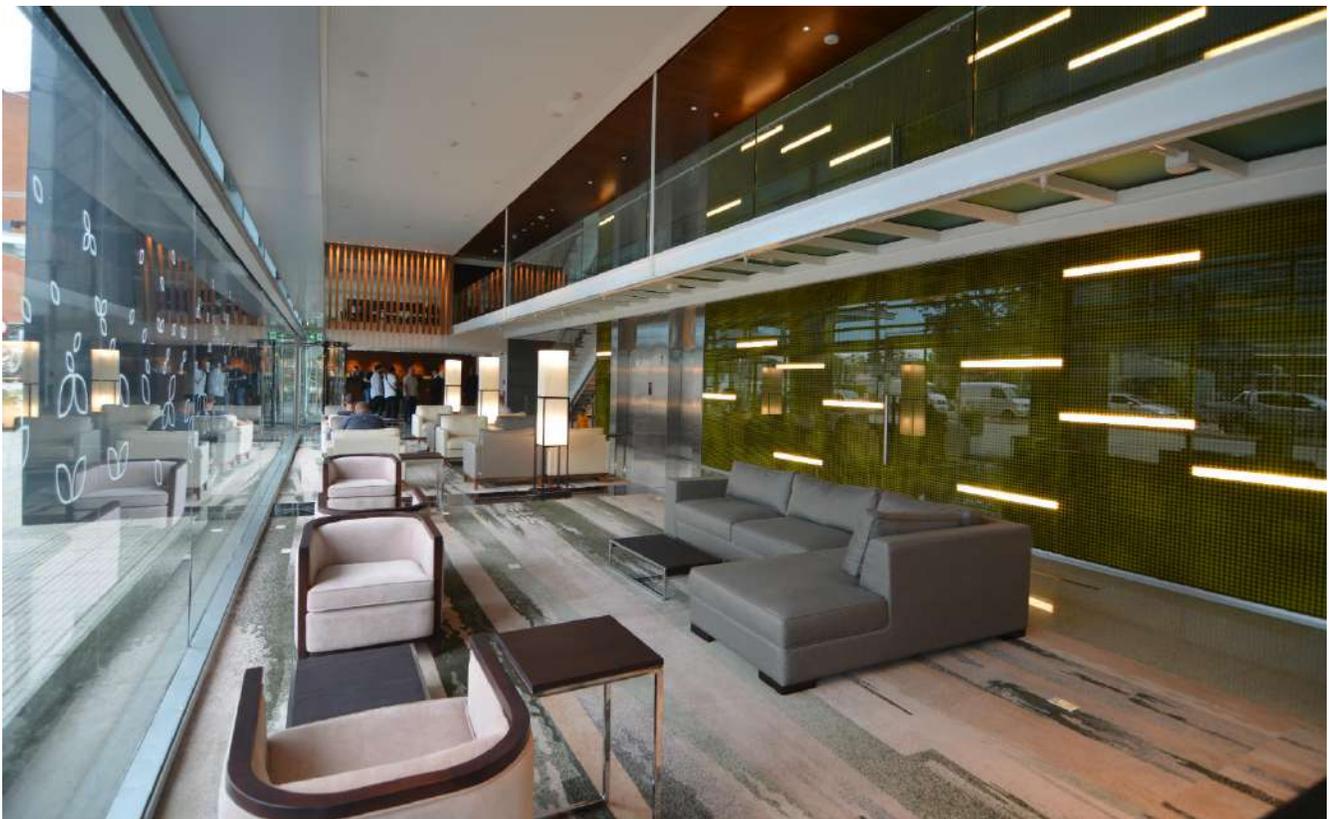


Hilton Garden Inn - Montevideo, Uruguay

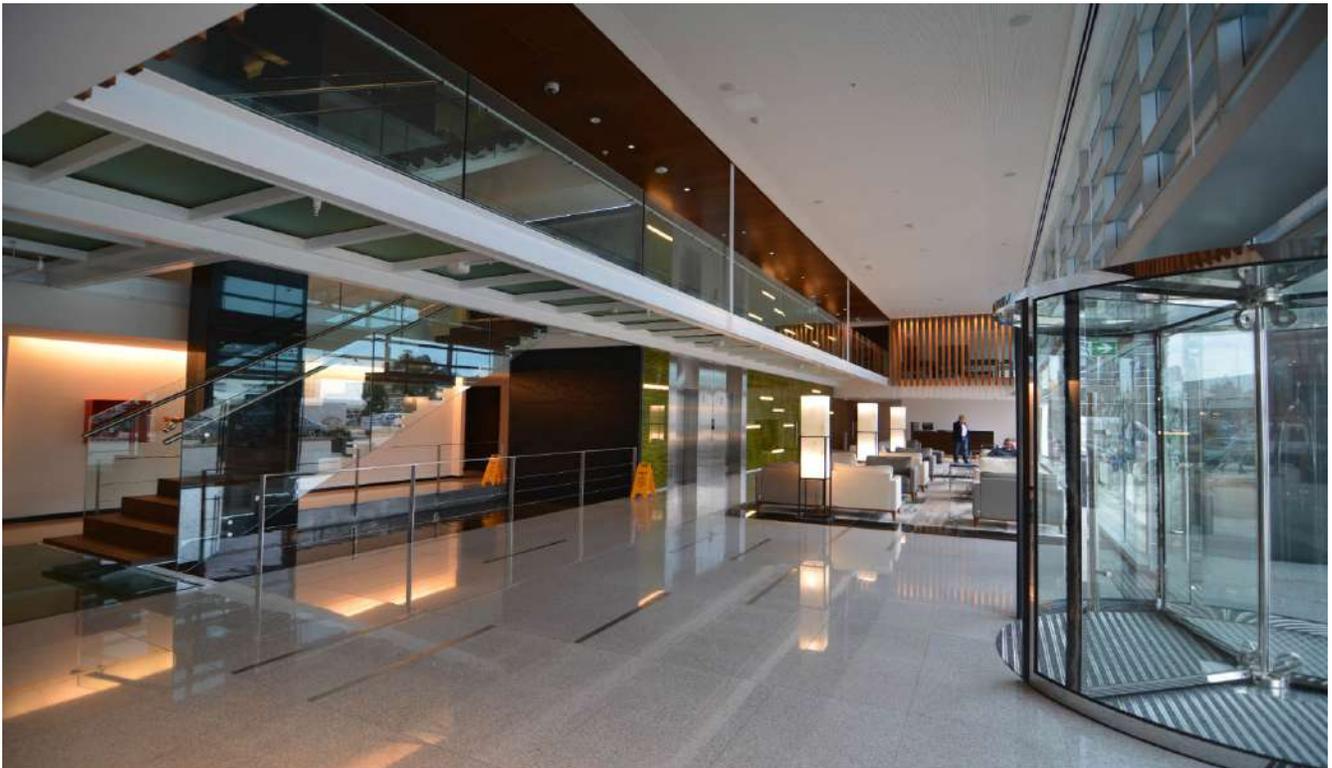
Uruguay recently welcomed its first Hilton Hotel. The elegant (and eye-catching) new Garden Inn was completed last year in Montevideo. Overlooking the world-famous Bay, the Hilton features 172 luxurious rooms, an excellent restaurant, bar, heated indoor pool, gym spectacular views from its sixteen floors and many other amenities, this distinctive “triangular-shaped” high-rise also benefits from an extraordinary location. Set in the heart of the city’s business district, it is within walking distance of World Trade Center Montevideo, many outstanding restaurants, one of the city’s most spectacular shopping centers, pristine beaches, and is a brief 20 minute drive to the Carrasco International Airport.

The triangular configuration of the Hilton Garden Inn represents a creative design choice influenced by the shape of the construction site. Architects Estudio Gómez Platero devised a dynamic contemporary image for the structure. A striking glass curtain wall fitted with horizontal bands distinguishes the facade. Committed to providing guests with every conceivable luxury and convenience, Estudio Gómez Platero retained the architectural/acoustic services of WSDG to develop the highest degree of Sound isolation, for optimal quietude in each guest suite, and superior speech intelligibility in all the public areas and meeting rooms.

WSDG recommends that acoustic planning be initiated at the design stage rather than after construction has been completed. The savings in reconstruction time and expense spent correcting acoustic errors can be substantial. By engaging proprietary mode calculation software, 3D acoustic modeling programs, auralization reports and other sophisticated tools design WSDG recommendations were developed to eliminate sound reflection in sensitive areas, and to prohibit sound leakage between guest rooms. These solutions ranged from applications of micro-perforated wooden diffusers, to such architectural design elements as fabric wrapped absorptive panels and customized flower-like acoustic ceiling “clouds.” WSDG’s recommended goal of establishing an NC 30 (Noise Criteria) level was established throughout the hotel. Reports from guests commenting on the peace and quiet they enjoy at the Hilton Garden Inn substantiate the success of that projection.



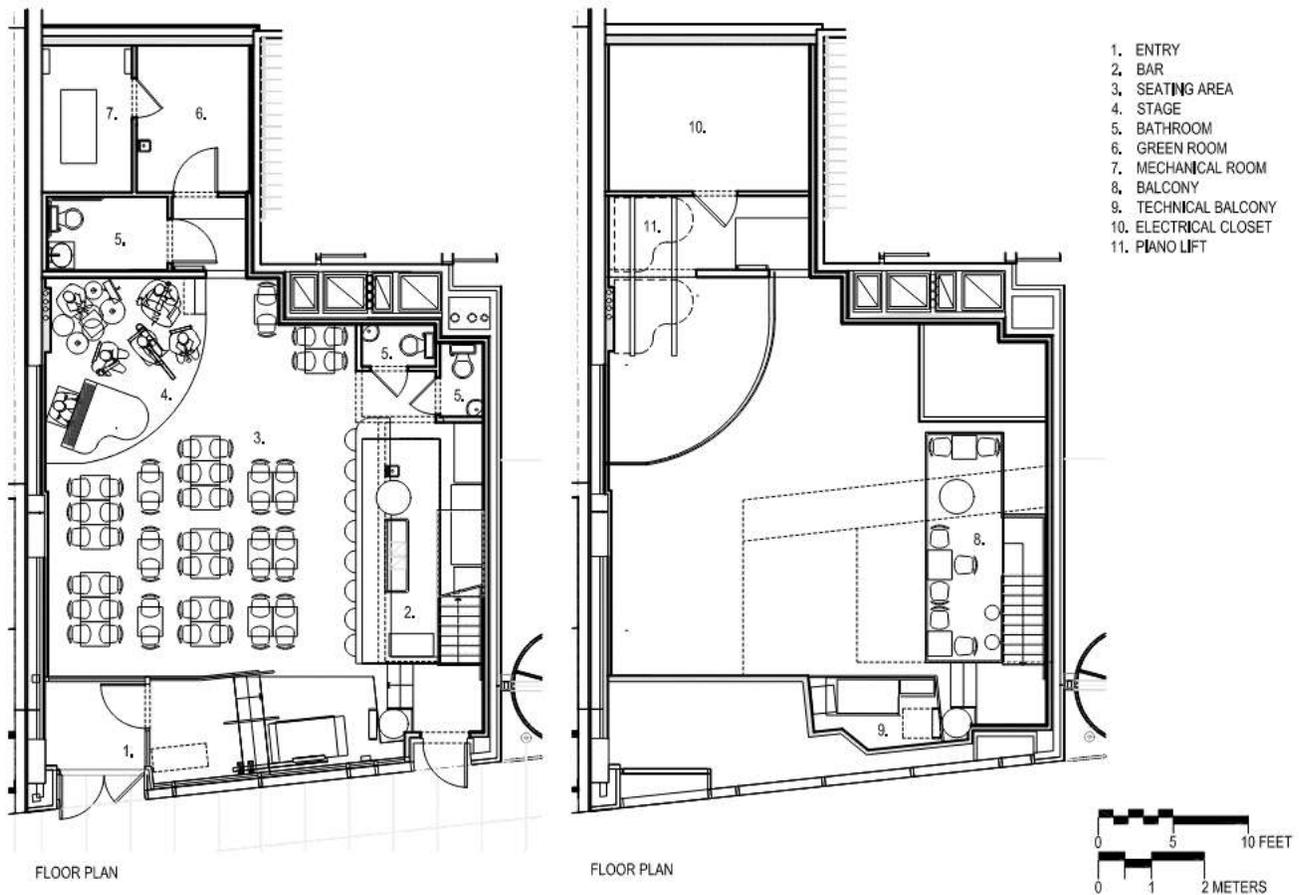
Hilton Garden Inn - Montevideo, Uruguay



Rockwood Music Hall - New York, USA

Founded in 2005, owner Ken Rockwood hired WSDG to design Stage 3, the largest of the three Rockwood stages. Blessed with enough height for a balcony (and “hidden” front of house position), but challenged with a small footprint of less than 1,200 square feet, WSDG was able to develop a design that can accommodate both a 14x10 corner stage – complete with a lift for a baby grand piano to move it out of the way when not needed – and almost 70 patrons, perfect for an intimate NYC show, such as the likes of Lady Gaga and Mumford & Sons.

A perfectly tuned Meyer reinforcement system and 24-channel PA complete the jewel-like qualities of this venue, underscoring its position as “one of the 10 best venues in New York City”.



Rockwood Music Hall - New York, USA



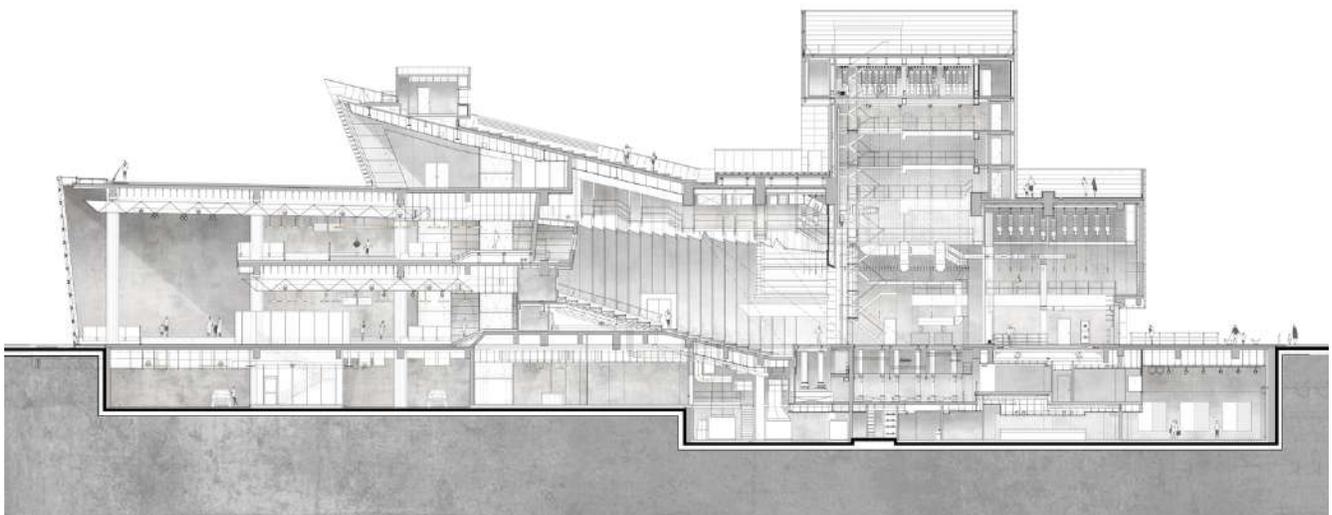
Tehran Book Garden - Tehran, Iran

Tehran Book Garden is a 700,000 ft²/65,000 m² cultural complex located in the third district of the Iranian capital. The compound was designed in the style of traditional Iranian terraced gardens, including foliage and trees both inside and out, and is dedicated to a series of cultural and educational activities. In addition to its eponymous collection of books – one of the largest in Iran — the complex also includes a children’s science park, art galleries, theaters and cinemas, and outdoor event spaces. Tehran Book Garden was designed by Tehran based Design Core[4S], with lead architects Sam Tehranchi and Ali Nabi, who retained the services of WSDG to design the building’s structural and room acoustics. Audio video system integration as well as theatrical system design was provided by Padyav Group, with lead consultant Masood Roostaei.

The acoustic goals for the main interior space were to replicate the emotional experience of a small, comfortable library. In addition to this, the cinema, theater, and activity centers needed to be acoustically isolated from the main areas so that people reading would not be disturbed by crowd noise from these areas. Finally, the acoustic solutions for these areas needed to be visually discrete so as not to block natural light from entering the main areas or to distract from the design of the space.

In order to mimic the acoustics of a smaller, more intimate room for the large, connected space of the main area, the WSDG design team used vertically aligned ceiling baffles throughout, to achieve highly efficient absorption without blocking the line of sight to natural light. The colors of the baffles were matched to the surrounding ceiling so that they blended in without distracting from the architecture.

For the cinema, drama theaters, café, and lounge areas, a selection of fabric, drywall, and perforated wood materials were sourced locally for an organic look that blended into the interior design aesthetics of the complex. These rooms also were acoustically isolated using gypsum in a double wall configuration, so that the sounds from these rooms would not disturb the main area.



Tehran Book Garden - Tehran, Iran



Peloton Flagship Spinning Center - New York, USA

In developing a NYC flagship site for their live and on-demand, indoor spinning classes, the Peloton brain trust recognized the need for a cutting edge video broadcast studio for their streaming program. The company founders engaged WSDG to create a broadcast quality acoustic and isolation design and an audio/video production studio with professional lighting and systems integration. The resulting Production Control Room and 60-bike Spinning/Streaming Studio are key components of the 8,000 square foot complex. Located in NYC's trendy Chelsea District, the Peloton Spinning Studio also features spa-quality ambience, a refreshment lounge and a sports fashion retail shop.

The Peloton studio introduces a new level of broadcast quality video through the internet. The space is tailored to enhance the image quality of the webcast while maintaining the proper ambience for in-house spinning enthusiasts. The 300 sq. ft. Production Control Room sports a state-of-the-art Newtek Tricaster production switcher, a Telemetrics robotic camera controller connected to 3 Sony PTZ cameras, and a Telemetrics track and PTZ camera which provides high end and ultra steady camera moves and shots. PCR video display is provided by two 55" LCD monitors. The facility audio system is run by a fully-automatable Biamp Nexia console coupled with a Martin Engineering DSP, Genelec monitors and Sennheiser wireless microphones. Production lighting is controlled by LightJockey™ via a Windows-based USB to DMX interface. iPod docks and a Nexo line array complete the equation in the 1500 sq. ft. Spinning Studio for unrivaled audio quality from the beginning to the end of the audio production chain.



Peloton Flagship Spinning Center - New York, USA



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Diana Ivette Urquiza, Director of Digital Music Production
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Representative Client List

26 Sushi & Tapas (Morris J. Kaplan) Surfside, FL
3:3:2 Buenos Aires, Argentina
54 Below New York, NY
55TEC Studios Beijing, China
Adverse Residence Belo Horizonte, Brazil
Alan May Listening Room Home Theater Dallas, TX
Albano Residence Monte Claros, Brazil
Alejandro Lerner Buenos Aires, Argentina
Alicia Keys (Oven Studios) Long Island, NY
Allaire Studios, Woodstock, NY
American University Washington, DC
Anel Paz – Supercharango Buenos Aires, Argentina
Appalachian State University Boone, NC
Art Institutes United States
AR Studios Rio de Janeiro, Brazil
Atlantic Recording New York, NY
Atomica Santiago, Chile
audioEngine New York, NY
Aura Club Events Hall Zurich, Switzerland
Bamyasi Studio Miami, FL
BBC Mundo, Coral Gables, FL
Bearsville Recording Bearsville, NY
Berklee College of Music – 160 Mass Ave Boston, MA
Berklee College of Music - Valencia Valencia, Spain
Big Mo Mobile Recording Kensington, MD
Blue Table Post Brooklyn, NY
Bob Margouleff (Mi Casa Studios) Hollywood, CA
Bob Marley Kingston, Jamaica
Boston Symphony Orchestra Control Room Boston, MA
Bruce Springsteen (Thrill Hill Studios) United States
Camden Yard / Baltimore Orioles Baltimore, MD
Carter Burwell New York, NY
Casa Cor Belo Horizonte, Brazil
Casa Ezeiza Buenos Aires, Argentina
Celine Dion United States
Central Synagogue New York, NY
Church Le Noirmont Le Noirmont, Jura, Switzerland
Citicorp Credit Services Huntington, NY
Clap Studios Medellin, Colombia
Club NEO Zurich, Switzerland
Comunidad de Fe Quito, Ecuador
Credit Suisse Zurich, Switzerland
Crossroads Tabernacle - Studio on the Hill Bronx, NY
Cuyahoga Community College - Center for Innovation in the Arts Cleveland, OH
Daniel Studio São Paulo, Brazil
Damian Marley Miami, FL
Diante do Trono Belo Horizonte, Brazil
Diego Torres Private Studio Buenos Aires, Argentina
Di Tella University Buenos Aires, Argentina
Different Fur Music San Francisco, CA
Dream Asylum – Danja & Marcella Araica Miami, FL
Duke Ellington High School Washington, DC
Eddie Kramer Rhinebeck, NY
EFE-X Bogota, Columbia
El Aleph Building – Norman Foster Buenos Aires, Arg
El Porteño Buenos Aires, Argentina
Electric Lady Studios New York, NY
Electronic Arts Vancouver, Canada
Elektra Entertainment New York, NY
Ellis Marsalis Center for Music (EMCM) – NOLA, LA
EMI – Escola de Marketing Industrial São Paulo, Brazil
Equiscosa Mexico City, Mexico
EUE Screen Gems (Rachel Ray) New York, NY
ESPN Bristol, CT
ESPM Broadcast Teaching Center São Paulo, Brazil
Estudio 13 Mexico City, NY
Ex'Pression College for Digital Arts San Jose, CA
Fito Paez (Circo Beat Studios) Buenos Aires, Argentina
Flughafenkopf – Zurich Airport Zurich, Switzerland
Fenix Club San Rafael, CA
Fontela Residence Buenos Aires, Argentina
Food Network New York, NY
Full Sail Center for the Recording Arts Orlando, FL
Goesgen Nuclear Plant Däniken, Switzerland
Goo Goo Dolls (GCR Audio) Buffalo, USA
Graeme Judd Voiceover Studio Calgary, Canada
Green Day – Jingtletown Recording Oakland, CA
Hard Rock Cafe New York, NY
Harman Flagship Store Listening Room New York, NY

Hilton Garden Inn Montevideo, Uruguay
Hirslanden Group Zurich, Switzerland
Hoffman LaRoche Basel, Switzerland
Howard Schwartz Recording New York, NY
Huber Music Room Carlsbad, CA
Hunter College New York, NY
IMAX Buenos Aires, Argentina
IDZI Lab Mexico City, Mexico
Independencia Stadium Belo Horizonte, Brazil
Interlochen Public Radio Interlochen, MI
Interim Services Ft. Lauderdale, FL
Isaac Hayes Westchester, NY
J Records (Clive Davis) New York, NY
J.A. Castle Recording Utica, NY
James Earl Jones Theater - PDS Poughkeepsie, NY
Jay-Z (Roc the Mic Studios) New York, NY
Jazz at Lincoln Center New York, NY
Jim Cramer's Real Money New York, NY
Jungle City Studios New York, NY
Kimmel Center Philadelphia, PA
KKL Concert Hall Luzern, Switzerland
La Rioja Theater La Rioja, Argentina
Le Poisson Rouge New York, NY
Mad Oak Studios Boston, MA
Maracana Stadium Rio de Janeiro
Manhattan School of Music New York, NY
Martin Scorsese Media Center Bronx, NY
Merriweather Pavilion Columbia, MD
Mineirao Stadium – FIFA Belo Horizonte, Brazil
Minnesota Public Radio Minneapolis, MN
MJ1 Broadcasting / Clear Channel New York, NY
MonkMusic Studios East Hampton, NY
Murray Arts Center Marietta, GA
MTV Latin America Buenos Aires, Argentina
National Council of Switzerland Bern, Switzerland
National Museum of the American Indian Washington, DC
New York University New York, NY
Northern Lights New York, NY
Novartis Basel, Switzerland
NYISO (NY Independent System Operator) Albany, NY
Peavey Electronics Meridian, MS
PepsiCo Content Studio New York, NY
Peloton Flagship Spinning Center New York, NY
PostFinance Arena Bern, Switzerland

Philippe Moritz Zurich, Switzerland
Planet Hollywood Screening Room New York, NY
Proctor and Gamble Buenos Aires, Argentina
Qatar Television Doha, Qatar
Record Plant Los Angeles, CA
Restaurant T Buenos Aires, Argentina
Richard Gere New York, NY
Rio 2016 – Barra Olympic Park Rio de Janeiro, Brazil
Robert Clivilles (Paradise Garage) Westchester, NY
Salvation Ministries Port Harcourt, Nigeria
SBK / EMI Records New York, NY
Skank Belo Horizonte, Brazil
SONY Corporation Teaneck, NJ
Spank! Music and Sound Design Chicago, IL
Stanwich Congregational Church Greenwich, CT
St. Gallen Train Station St. Gallen, Switzerland
Stevie Wonder (Wonderland) Los Angeles, CA
Sumitomo Boardroom New York, NY
Sunshine Mastering Vienna, Austria
Swiss Parliament Basel, Switzerland
Telefé Buenos Aires, Argentina
Teleproductions, Inc. Washington, DC
TSR – Télévision Suisse Romande Geneva, Switzerland
The Carpenters Church Port Harcourt, Nigeria
The Church Studios – Paul Epworth London, UK
The Cosmopolitan Las Vegas, Nevada
The Standard Hotel New York, NY
Thirteen / WNET New York, NY
TV Globo Sao Paulo, Brazil
Union College Schenectady, NY
University of Colorado – ATLAS Boulder, CO
University of Michigan Ann Arbor, MI
Univision Miami, USA
Universidad ICESI Cali, Colombia
Vassar Chapel Poughkeepsie, NY
Video Arts Studios Fargo, ND
Village Studios Guangzhou, China
Vocomotion Skokie, IL
VSL Synchron Stage Vienna, Austria
Vivace Studios Montevideo, Uruguay
Whitney Houston United States
WNYC Radio New York, NY
Woodrow Wilson Center– Smithsonian Washington, DC
Young Israel Synagogue Miami, FL

Key Personnel



Beth Walters

Founder Partner

beth.walters-storyk@wsdg.com

Beth Walters-Storyk is a graduate of the Fashion Institute of Technology (New York) with two degrees, A.A.S. in Textile Design and a B.F.A. in Product Design. Her construction experience comes with having been a senior installation designer for the Gallery's exhibition and installation staff at the Fashion Institute for over 10 years. From 1982-1988, Beth also was the display and merchandising director for such noted home furnishing fabric firms as Boris Kroll Fabrics, Greff Fabrics and Design Tex Fabrics. Beth is a founding partner and principal of Walters-Storyk Design Group and leads the interior design services division.



John Storyk, R.A.

Founder Partner

john.storyk@wsdg.com

John Storyk, registered architect and acoustician, is a founding partner of WSDG. He has provided facility planning, acoustical and systems design services for the professional audio-video production and performance community since the 1969 completion of Jimi Hendrix's Electric Lady Studios in New York City. John received his architectural studies from Princeton and Columbia Universities. As an independent designer, engineer and founding partner of WSDG, he has been responsible for over 3,500 world-class audio-video production facilities, including studios, radio stations, video suites, entertainment clubs and theaters. He is a member of the American Institute of Architects (AIA), Audio Engineering Society (AES) and Acoustical Society of America (ASA) and is a frequent contributor to AES convention papers and professional industry periodicals. John is a frequent lecturer at schools throughout the nation and has established courses in acoustics at Full Sail (Orlando), Ex'Pression Center for the Media Arts (San Francisco), while maintaining adjunct professor status in Acoustics and Studio Design at Berklee College of Music (Boston).



Nancy Flannery

Senior Partner / Chief Financial Officer

nancy.flannery@wsdg.com

Nancy Flannery has spent over thirty years as the consummate client liaison and financial leader of WSDG. A tireless multi-tasker, and summa cum laude graduate from SUNY New Paltz with a business degree, Nancy assists clients in virtually every phase of their projects. From negotiating favorable contracts with suppliers to procuring special materials, or swiftly resolving complex scheduling, production, or billing issues as well as operating as WSDG's Human Resource department head, Nancy Flannery is the definitive advocate/problem solver. With a focus on developing internal procedures and policies to improve productivity and performance, she gets it right the first time and keeps it on track for the entire trip.



Sergio Molho

Partner / Director of Business Development

sergio.molho@wsdg.com

Named Partner/Director of Business Development in 2016 for the global WSDG architecture/acoustic design firm, Sergio Molho was a founding partner of WSDG Latin America in 1994. He has provided technical, acoustical and architectural supervision as well as project management for all WSDG Latin projects. He now provides daily and long-term technical, marketing, social media and business management direction for the firm's multiple offices. Sergio Molho has been an audio/video and recording industry professional since 1982. An accomplished keyboard artist and vocalist, in the 1980's he led popular Argentine funk band CASH. His technical credits range from AV and Systems Integration/design to project management. Sergio is a frequent contributor to technical workshops and is committed to expanding the knowledge and education of acoustics and electro-acoustics in their relationship to architecture. Sergio also serves as Director of WSDG International Relations, and contributes to the promotion and acquisition of new business worldwide.



Joshua Morris

Partner / Chief Operating Officer

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Joshua Morris graduated from the University of North Carolina in Charlotte with two Degrees, a Bachelor of Arts in Architecture and a Bachelor of Architecture. A love of music has led him to seek a combination of architecture and acoustics, beginning with his thesis on acoustics. Additionally, Josh has been educated in the Suzuki method for violin since age three, making acoustic design a natural choice for a career path. Joshua joined the WSDG team in January of 2005, moving from North Carolina to New York, and quickly settled into a key role as a project manager, designer, to his current status as a partner and COO. He has managed dozens of projects from China to the United States to Germany, and continues to add more skills to his design vocabulary each day, while refining his already well developed practice as a luthier.



Dirk Noy

Partner / Director of Applied Science and Engineering

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Dirk Noy, M.Sc. Physics, has a Diploma in Experimental Solid State Physics from the University of Basel, Switzerland and graduated from Full Sail Center for the Recording Arts, Orlando, USA, where he was one of John Storyk's students. After joining WSDG in early 1997 Dirk now heads the WSDG Europe office in Basel, Switzerland. Dirk has extensive experience in applied mathematics, acoustical measurement and calculation techniques, audio engineering, systems design and all facets of Information Technologies. His language abilities include German, Dutch, French and English. As a publishing member of the Audio Engineering Society (AES) and the Swiss Acoustical Society (SGA) he is a frequent lecturer at trade conventions, recording colleges, as well as architectural education institutions.



Romina Larregina

Partner / Director of Production

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Romina Larregina graduated from the University of Palermo, Buenos Aires, with a degree in Architecture. Upon graduating, Romina took her skills to an engineering office, while teaching English and helping with the set up of trade shows. She apprenticed at WSDG – Latin for several years before moving to the United States in 1999, to become an integral member and now partner at WSDG (New York). Her multi-lingual skills in English, Spanish and Portuguese have been instrumental in leading numerous international projects. Romina is the Latin liaison, as well as project management and production coordinator for the New York office. She loves to travel and enjoys the day-to-day client interaction.

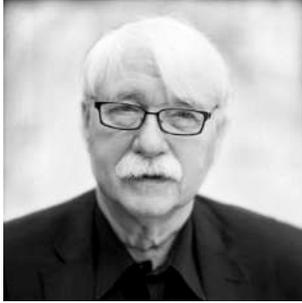


Andrew Swerdlow

Partner / Acoustic Engineer

andy.swerdlow@wsdg.com

Andy earned his B.S. in Physics and developed computer modeling and laboratory measurement/data capture skills from UMBC (Baltimore). His first job was in analytical chemistry for a Maryland based pharmaceutical company. Once he'd had enough "Big Pharma", he switched career paths and moved to NYC to become a double threat musician/audio engineer (drummer and mastering). In addition to enhancing his listening and audio production skills, Andy acquired hands-on construction credentials while helping build a new location for Studio G in Brooklyn. That project rebooted his interest in electro-acoustics, architectural acoustics, and acoustic prediction, measurement and modeling. In 2015, he joined WSDG as an intern, building his way to his current position as an acoustic engineer, applying his modeling and measurement skills, making recommendations for a variety of acoustic projects, and tuning audio systems.



Prof. Dr. Wolfgang Ahnert

Partner / Director of ADA/AMC, a WSDG Company

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After studying Technical Acoustics at the Technical University of Dresden and passing one year at the Moscow State University (Lomonossov) for a complementary course, Dr. Ahnert wrote his doctoral thesis and attained a Ph.D. In 1990 he founded the Engineering Office ADA – Acoustic Design Ahnert with at first two colleagues at the site of the former governmental Institute. In January 1993 the Office moved to a new location at the Berliner ‘Innovations- und Gründerzentrum’ (Berlin Innovation and Founders’ Center) – BIG – which was established in an abandoned industrial area, formerly used by AEG, in Berlin’s Municipal District of Wedding. Dr. Ahnert is a sought-after author, contributor, educator and lecturer at professional conferences and tradeshow and has authored countless white papers on subject matters such as acoustical simulation processes, measurement technology, electro-acoustical theory and applications.



Matthew Ballos

Partner / Director of Architectural Technology

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Mid-Hudson Valley, New York native Matt Ballos earned dual degrees in Architecture and Construction Management. A background in civil engineering and a lifelong love of construction and design has enabled Matt to quickly become a valuable member of WSDG’s design and production team, currently as a project designer and manager. Matt’s love of design extends from his drawing skills to his personal workshop where he spends his free time building furniture and fabricating functional pieces of art. He believes his experiences at WSDG coupled with having grown up on construction sites provides him with a functional knowledge of what can and can’t be built, and enables him to apply his design talents in creating uniquely useful, beautiful and acoustically accurate spaces. WSDG is proud of Matt’s continued affiliation with the US Air Force Reserve as an engineering specialist.



Tobias Behrens

Electrical Engineer / Project Engineer

tobias.behrens@wsdg.com

Tobias Behrens graduated in electrical engineering at the Technical University of Berlin in 1994 with a focus on technical acoustics and communications technologies. He then performed post graduate acoustic research on psycho-acoustic topics at ITA/Technical University, Berlin and ISVR / Southampton University, UK. At ADA-AMC (A WSDG Company) Tobias Behrens is working as a Project Engineer on room acoustics, electro acoustics and architectural acoustics, as well as executing and analyzing room acoustical and electro acoustical measurements. He brings with him 20 years of experience in professional planning and consulting on national and international projects. Room acoustic simulation and analysis, laboratory and field measurements, sound absorber technologies and electronic enhancement systems are main components of his recent work. During the last 24 years he coauthored over 15 papers and contributions for DAGA, ASA and ICA.



Jonathan Bickoff

Partner / Project Engineer

jonathan.bickoff@wsdg.com

Jonathan earned his B.S. in Music Technology and Business from Mercy College in 2009. He then went on to develop his skills in applied acoustics mixing front of house for live shows, AV for corporate functions, and mixing for commercials, TV, and film. Jonathan brings this real world experience and enthusiasm to the Highland, NY acoustics team. When not arguing about music and headphones, Jonathan is busy playing cello, road cycling, hiking, stand-up paddle boarding and practicing yoga.



Silvia Campos Ulloa Molho

Partner / Art Director

silvia.molho@wsdg.com

An audio/video industry professional since 1987, Silvia Molho has developed striking interior designs for an international client base ranging from luxury homes to high-end recording studios and state-of-the-art educational complexes. A graduate of the Bellas Artes University in Lima, Peru and Visual Anthropology in UBA, Buenos Aires. Silvia has served as a producer on several video and film productions and documentaries in Peru, Paraguay and Argentina. Her areas of expertise include graphic design and art direction. As a long-time partner in WSDG, she is a leader (with founding partner Beth Walters) of the firm's global graphic design team. Since joining the firm in 1994 she has represented WSDG in Latin America and served as interior designer and supervisor for countless high-end design projects including world class facilities.



Victor Cañellas (Weike)

Representative

wei.ke@wsdg.com

Acousmatic Sinologist Víctor Cañellas (Weike) has been a successful acoustician/sound researcher in China since 2003. His expertise in developing acoustic interfaces for visual arts in performance venues has contributed to such demanding assignments as the Park19 and LOFT345 clubs in Guangzhou and for the popular 2007 La Fura dels Baus 'Imperium' premiere in Beijing. His expertise in acoustic treatments was enriched by serving as a representative for Jocavi Acoustic Panels and Soundbox Acoustic Tech fixed architectural acoustic systems. Victor studied Social Science at Universitat de Barcelona, Asian Studies at Universitat Autònoma de Barcelona Center of International and Intercultural Studies, and attended Chinese Language Studies in Sun Yat Sen University in Guangzhou. His wide-knowledge of 'Eastern thought and logics' provide a solid foundation for him in his new role as a WSDG representative.



Michael Chollet

Partner / Director of Systems

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Michael Chollet's first activities in the professional audio field were the development of loudspeaker systems and electronics. After graduation from High School with a focus on engineering he started self education in the fields of acoustical measurements, DSP programming, computer and network technology. He augmented this know-how foundation with advanced training courses in acoustics and environmental noise protection. At WSDG Michael has been in charge of different studio construction projects and large scale Installations, as the Swiss national broadcaster TSR in Geneva. Additional specialties include system integration, DSP programming and research on advanced problem solving. His language skills include German, French and English.



Judy Elliot-Brown

Senior Systems Designer Engineer

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Judy Elliott-Brown has been a professional audio engineer since 1977, with a background in live touring, remote recording, music recording, sound for television, studio maintenance and systems design. She has been responsible for the systems infrastructure design and installation of over 100 projects worldwide. Projects she has worked on include world class audio recording studios, media/broadcast production studios, educational facilities and multi-use performance spaces. Judy is a full-time systems design engineer and project manager, and has been responsible for systems design and installation on many WSDG projects for over 25 years. Judy is a member of the Audio Engineering Society (AES) and National Academy of Recording Arts and Sciences (NARAS). Additionally, she has worked on several Grammy nominated albums and was a sound engineer for a Sci-Fi cartoon show.



Enno Finder

Project Engineer

enno.finder@wsdg.com

Enno Finder studied Electrical Engineering at the Technical University Berlin, Germany, with a focus on Acoustics by Michael Möser. Having started 1995 as an intern at ADA Acoustic Design Ahnert, he was asked to join the company as an AV project consultant, starting at designing electro acoustical systems for major train stations, airports, working on large Houses of Worship such as the Berlin Cathedral, Parliament Buildings, up to large venue design (e.g. Berlin O2 World, Olympic Stadium). Enno Finder brings with him a rich musical experience in classical vocal music, having taken up singing as a little boy, he currently is an active member of several Berlin based vocal choirs and ensembles.

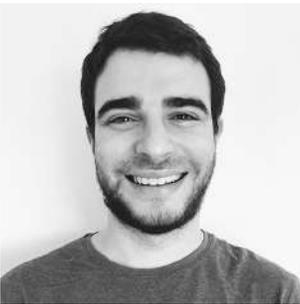


Gabriel Hauser

Partner / Director of Acoustics

gabriel.hauser@wsdg.com

Gabriel Hauser graduated with a degree in electrical engineering from the Swiss Federal Institute of Technology, Zurich, in 2000. Analog and digital signal processing and acoustics were his primary focus. His Thesis was titled "Reduction of Nonlinear Distortion of Loudspeakers employing Volterra Filters" (at Studer Professional AG, Switzerland). After joining the WSDG New York office, Gabriel returned to Switzerland to become a founding partner at WSDG Europe. His specialties include Acoustical Simulation and Measurement, complex Acoustical Analysis and Methodology as well as Architectural Acoustics. During his studies Gabriel was a founding member of Abbaxx Soundsystems Ltd., whose principal field of work is sound reinforcement and loudspeaker technology. While with Abbaxx, he designed and developed sound systems for concert use, churches and installations. He writes articles for audio magazines and continues to be a performing musician.



Leandro Kirjner

Project Manager

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Leandro Kirjner is a young professional from Argentina, graduated from Buenos Aires University (UBA) with Master of Architecture degree. In 2012 he joined to the WSDG Latin team, since that moment he has been involved in several projects around the world, being the project manager and in charge of the production for the construction documentation and part of the Audio / Video team. As one of the Architectural Team member, he decided to do a Lighting Design grade to improve his knowledge and let him to be in charge of the most of the lighting projects that the Latin Office had. Also, he did a BIM Manager grade to continue performing his skills in order to give an efficiencies approach on each project.



Alan Machado

Project Manager

alan.machado@wsdg.com

Alan graduated as an Architect and Urban Planner from FUMEC University, Belo Horizonte in 2013. Since then he has worked in many different areas of architecture, going from house and building modeling and executive project to markets and shopping malls. Alan has a deep connection with music, he is a passionate listener and has been playing the electric guitar as a hobby since the early 2000s. Working at WSDG since 2016, he discovered a new way to combine his passion for music and architecture and work with them for a common objective.



Breno Magalhães

Architect / Project Manager

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Breno graduated as an Architect and Urban Planner from Federal University of Minas Gerais (UFMG) in 2010 and as a Product Designer from State University of Minas Gerais (UEMG) in 2006, both in Belo Horizonte. His interest in music and acoustics grew during his university period. Breno enjoys playing the guitar and he turned this hobby into his Product Design final graduation project, by developing an electric guitar with an innovative pickup swapping system for studio applications. The same thing happened in his Architect and Urban Planner graduation project when he designed a new music Arena for Belo Horizonte. At this point he was already a WSDG member. Also as a Product Design student, Breno took part in several research groups related to furniture design focused on manufacture optimization, ergonomics and sustainability. He was a partner in a design office with the same approach. Breno works as a Project Manager and Designer at WSDG Brazil office since 2008.



Robert Margouleff

Project Engineer

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Grammy-winning engineer/producer/studio-owner Robert Margouleff brings 40+ years of hands on experience in his role with WSDG. Beyond his long-time collaboration with Stevie Wonder, capped by a Best Engineered Album Grammy for *Innervisions* (shared with Malcolm Cecil,) Margouleff's producer/ engineer credits include work with Devo, Billy Preston, Depeche Mode, Jeff Beck, The Doobie Brothers, Quincy Jones, and many other stellar artists. After building his Hollywood-based Mi Casa Multimedia Studios, Margouleff became a leader in surround audio for home theater, and provided 5.1 and 7.1 mixing and mastering for DVD and Blu-ray releases and restorations for such films as: *The Sound Of Music*, six *James Bond* features, *Rush Hour* and the complete *Lord Of The Rings* cycle. Margouleff will be involved in all aspects of WSDG's west coast projects. He will consult with new clients on details ranging from site selection to design, construction, technology, acoustic treatments and systems integration.



David Molho

Project Engineer

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David graduated Magna Cum Laude as a Music Production & Engineering major from Berklee College of Music in 2011. Since then he has been working as an engineer, producer and composer for world renowned record labels in his personal studio Groovyland Studios in the city of Miami, as well as doing acoustic measurements and room tuning sessions all over the world. He has been involved with recording studios all his life, having among many experiences, worked at Electric Lady Studios and being in sessions at Abbey Road Studios. David is part of the acoustic and project engineering team.



Gustavo Perezlindo

Systems Engineer

gustavo.perezlindo@wsdg.com

Gustavo Perezlindo has ventured from a young age in the development of technical solutions for live shows, applying his capabilities of Electronic Engineering, Architecture and Production, allowing him to face the integral production of shows in a wide spectrum, ranging from theatrical and rigging systems design, production, and technical direction, from the initial concept to the final reality.



Esther Roger

Project Manager

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Esther Roger is a South Florida native which graduated from FIU (Florida International University) with a Master of Architecture degree, and from FAMU (Florida A&M University) with a Bachelor of Science in Architectural Studies. As a young professional her career began with her love for humanitarian work as she began familiarizing herself with construction as an AmeriCorps worker at Habitat of Humanity in the construction division.

Esther joined the WSDG team in May of 2017 and works as a Project Manager and a 3 Dimensional Visual Creator in the Technical Interior Department.



Bob Skye

Project Engineer

bob.skye@wsdg.com

Bob is a leader in electro/acoustic design, recording studio construction and, a Grammy-winning engineer with Gold and Platinum credits, has joined the Walters-Storyk Design Group. As WSDG's west coast representative and project engineer, Skye shoulders a host of responsibilities ranging from new client development and overall business management to hands-on project design and construction supervision. He is a member of Audio Engineering Society, American College of Forensic Examiners and American Board of Recorded Evidence.



Mariana E. Varon

Project Manager

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Mariana studied architecture at the UBA (Universidad Nacional de Buenos Aires / University of Buenos Aires) and graduated in 1995. Along with her MBA in Architectural Design at FADU (UBA) she continued her architecture studies at Universidad Torcuato Di Tella. From 2004 to 2011 she worked for WSDG Latin, being the project manager of many projects and in charge of the production of the construction documentation. In 2011, she created her own Architectural Firm: Mvaron Arch. & Assoc., working on Steel Framing projects and dry-wall construction. Mariana has been involved as a project manager with several architectural firms, including Clorindo Testa, Roberto Frangella and Justo Solsona Arquitectos. Her work led her to win several awards and mentions during her career.



Marc Viadiu

Project Engineer

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Marc studied Technical Engineering in Sound and Image and Higher Engineering in Electronics at the University Ramon Llull in Barcelona, Spain. After graduation, Marc worked in an industrial acoustics company in Barcelona. Later he started his own company of acoustic engineering and distribution of acoustic and audio products. At the beginning of 2009, Marc undertook a six month internship at the WSDG New York office preparing drawings, taking acoustical measurements and performing room acoustical calculations. Upon returning to Spain in 2010, he started a new company of designing acoustical products and opening the new WSDG office in Spain.



Thomas Wagner

Senior Project Engineer

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Thomas Wenger studied IT and electronics at the Institute for Software Engineering, Bern with additional studies in Audio Recording and Room Acoustics in East Croyden, England. After several years in the IT world with major project management development he worked with J+C Intersonic AG for 5 years and became a Senior Project Manager. Mastering the synthesis of the technical aspects of acoustics, broadcast and audio video systems has made him an invaluable member in all the released projects like GTRK Kultura Moscow, HKB Music University Switzerland, and several government related projects for Swiss Television and Radio. In his responsibility for the technical planning and integration of state-of-the-art recording studios and media locations, his supervision capability insures the coordination of the building process and equipment specifications.



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