



WSDG
WALTERS-STORYK DESIGN GROUP



ARCHITECTURAL
ACOUSTIC
CONSULTING

MEDIA
SYSTEMS
ENGINEERING

Company Profile 2017



Table of Contents

Company Background and Structure	4
Company Background	4
Company Structure	4
Services Architectural Acoustic Consulting	5
Acoustic Design and Consulting	5
Acoustic Testing and Measurement	5
Internal Room Acoustics and Surface Treatments	5
HVAC Noise Control Design / Vibration Control	5
Sound Isolation	5
Recording Studio Design	5
Media Facility Planning & Consulting	5
Services Media Systems Engineering	6
Electro-acoustical Systems Design	6
Systems Design & Integration	6
IT & Communication Systems	6
Home Theater & Residential Systems Design.....	6
Theatrical Technology	6
Control Systems	6
Relevant Experience	7
Professional References	70
Representative Client List	71
Key Personnel	73

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 NY.

With USA headquarters in Highland, New York, and offices in Basel, Switzerland; Buenos Aires, Argentina; Belo Horizonte, Brazil; and Miami, Florida. WSDG is the partnership of interior design partner Beth Walters and John Storyk. The firm's global team includes over fifty associates and design professionals.

WSDG's 46+ years of innovative design achievement has produced over 3500 diverse global projects. These assignments include: NY's Jazz At Lincoln Center (2006) and studios for: Alicia Keys, Jay-Z, Bob Marley, Bruce Springsteen, Celine Dion, Def-Jam Records, ESPN, MTV (Latin America), WNET, KKL (Switzerland) and Boston Symphony 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 (2011), the Berklee College of Music – 160 Mass. Ave. recording/teaching complex, Boston (2014), The Church Studios, London (2016), and Boston Symphony Orchestra Control Room, Boston, MA (2017). The firm's work has been published extensively, and discussed in numerous professional audio, broadcast and systems design media.

Company Structure

WSDG maintains offices around the world:

USA:

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

Europe:

Basel, Switzerland
Barcelona, Spain
Florence, Italy

Latin America:

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

Asia:

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

All WSDG offices share resources on a daily basis, however all jobs are managed and represented on a local basis. All work will be coordinated via the New York office. All offices maintain a full-time staff of acousticians, architects, engineers, designers and systems integrators.

Services | Architectural Acoustic Consulting

Acoustic Design and Consulting

WSDG has collaborated with many of the world's leading architectural firms to provide innovative solutions and procedures towards creating excellence in acoustic and electro-acoustic design and installation. We pride ourselves in participating in the collaborative design process.

Acoustic Testing and Measurement

WSDG engineers use the most advanced acoustic and electro acoustic prediction and analysis software. This provides accurate acoustical data collection and predictive acoustical modeling. Our reports are accurate and along with pre-construction environment auralization, allow our clients and design partners to listen to environments before they are constructed.

Internal Room Acoustics and Surface Treatments

Critical listening spaces, including studios, theaters, conference rooms, home listening rooms and all speech intelligibility sensitive spaces will all benefit from accurate acoustic design. Often the use of variable acoustic treatments is our preferred design approach. By providing design options for surface treatments using absorption, reflection and diffusion, we can accurately enhance the listening properties of these environments.

HVAC Noise Control Design / Vibration Control

WSDG establishes noise criteria specifications for all spaces in our designs, while preparing creative design solutions for adherence to these goals. Careful attention is given to HVAC design, building structural systems, and room boundary design. When required, real world listening simulations allow careful value engineering before final design documentation.

Sound Isolation

Critical to virtually all successful acoustic designs is the thorough analysis of external noise, vibration sources (traffic, trains, aircraft, etc.) and environment (i.e. HVAC distribution systems). WSDG provides acoustical measurement, analysis and design services to assure optimal acoustical isolation of existing or new construction, always with an eye towards economy of design and awareness of applicable building techniques for each project.

Recording Studio Design

WSDG creates world class professional critical listening environments which provide a platform for an array of mixing consoles, audio monitors and professional equipment – both digital and vintage analogue – to be used to optimum effect. Successful projects start with a well-developed plan. WSDG designers help their clients in the initial evaluation and development program / requirements summary, site selection, design and construction documentation.

Media Facility Planning and Consulting

Ergonomic design and concise 'simple enough' operation of a facility are most critical. Our team of architects and engineers will evaluate a building site, help develop the project program and educate clients about the process of designing and building a media facility. We provide cost analysis for budgeting as well as preliminary design and renderings for presentations. WSDG designers, architects and engineers can provide a proven expertise in all the every phase of design and construction.

Services | Media Systems Engineering

Electro-acoustical Systems Design

The most visible part of the Electro-acoustical System is the loudspeaker system. Loudspeakers are complex electromechanical devices so varied, extensive and rapidly shifting that is hard to oversee even for professionals. WSDG recommendations are based on technical, aesthetical and budgetary criteria tailored to the project at hand. Selecting the electroacoustic system most suitable for the room, enables WSDG to achieve and exceed target parameters such as loudness level, frequency range, coverage, directivity control and speech intelligibility.

Systems Design and Integration

In today's world of increasingly complex technical media installations, multi-functional devices and computer controlled sound and video systems the integration of all equipment pieces into a working system is a complex engineering task. WSDG provides services that start with the design and end with the complete implementation of solutions for commercial, corporate and residential areas that seamlessly integrate, in such a way that the system is operable by personnel with differing needs and technical skill.

IT and Communication Systems

WSDG offers global IT & Communication design services including: Research of existing current conditions, consultation with clients and systems analysis of required specifications. With that information, we produce designs that utilize suitable software and hardware solutions, liaising with other IT staff such as software engineers and programmers. WSDG assists in producing, installing and implementing the new system, testing and modifying it to ensure that that it operates reliably.

Home Theater and Residential Systems Design

At WSDG the theater experience starts with the design that architecturally incorporates all the interior design, acoustical requirements and carefully selected audio, video and control equipment. A detailed plan of the home theater will provide room and structural acoustic design, interior design, architectural renderings, custom electronics specifications and integration design.

Theatrical Technology

WSDG provides theatrical technology and lighting design services for professional theater designers, educational workshops and special events. We work closely with diverse and complex production and design teams to make every project a success. We blend science with art to create beautiful environments and captivate audiences. We will work with you through the programming and tech periods, up to finalization and final set-up of the systems.

Control Systems

Our Control and Automation system design services provide the full scope of engineering services and solutions to meet all specific needs. From defining the project concept and initial specifications, to front end engineering & design, our team can help you identify the right technology. Once complete, the team moves into the build, test and delivery stage to prepare for installation, commissioning and ongoing project support.

Relevant Experience

Walters-Storyk Design Group and its principals have an extensive body of clients in the fields of architectural design, acoustical consulting, noise isolation design, facility design and audio-visual systems design and integration. 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 47 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:

Jazz at Lincoln Center
New York, USA

The Church Studios
London, United Kingdom

Katara Studios
Doha, Qatar

Berklee College of Music-160 Mass Ave
Boston, USA

Casa Cor Home Cinema 2009
Belo Horizonte, Brazil

Maracanã Stadium
Rio de Janeiro, Brazil

Swiss Parliament – General Assembly
Bern, Switzerland

Peloton Flagship Spinning Center
New York, USA

KKL Concert Hall
Luzern, Switzerland

Jungle City Studios
New York, USA

St. Ursen Cathedral
Solothurn, Switzerland

Restaurant T
Buenos Aires, Argentina

Mineirão Stadium
Belo Horizonte, Brazil

Qatar Television
Doha, Qatar

Javeriana University - Ático Media Center
Bogotá, Colombia

Casa Ezeiza
Buenos Aires, Argentina

Flughafenkopf – Zurich Airport
Zurich, Switzerland

PostFinance Arena
Bern, Switzerland

Pangu 7 Star Hotel
Beijing, China

Le Poisson Rouge (LPR)
New York, USA

VSL Synchron Stage
Vienna, Austria

Iglesia Los Olivos
Buenos Aires, Argentina

New York University – Steinhardt
New York, USA

Murray Arts Center
Marietta, USA

Igreja Batista Central – IBC
Belo Horizonte, Brazil

Aura Club Events Hall
Zurich, Switzerland

ESPN Digital Center 2
Bristol, USA

Rio 2016 – Barra Olympic Park
Rio de Janeiro, Brazil

Los Molinos – Faena Arts Center
Buenos Aires, Argentina

Morro do Chapeu Residence
Belo Horizonte, Brazil

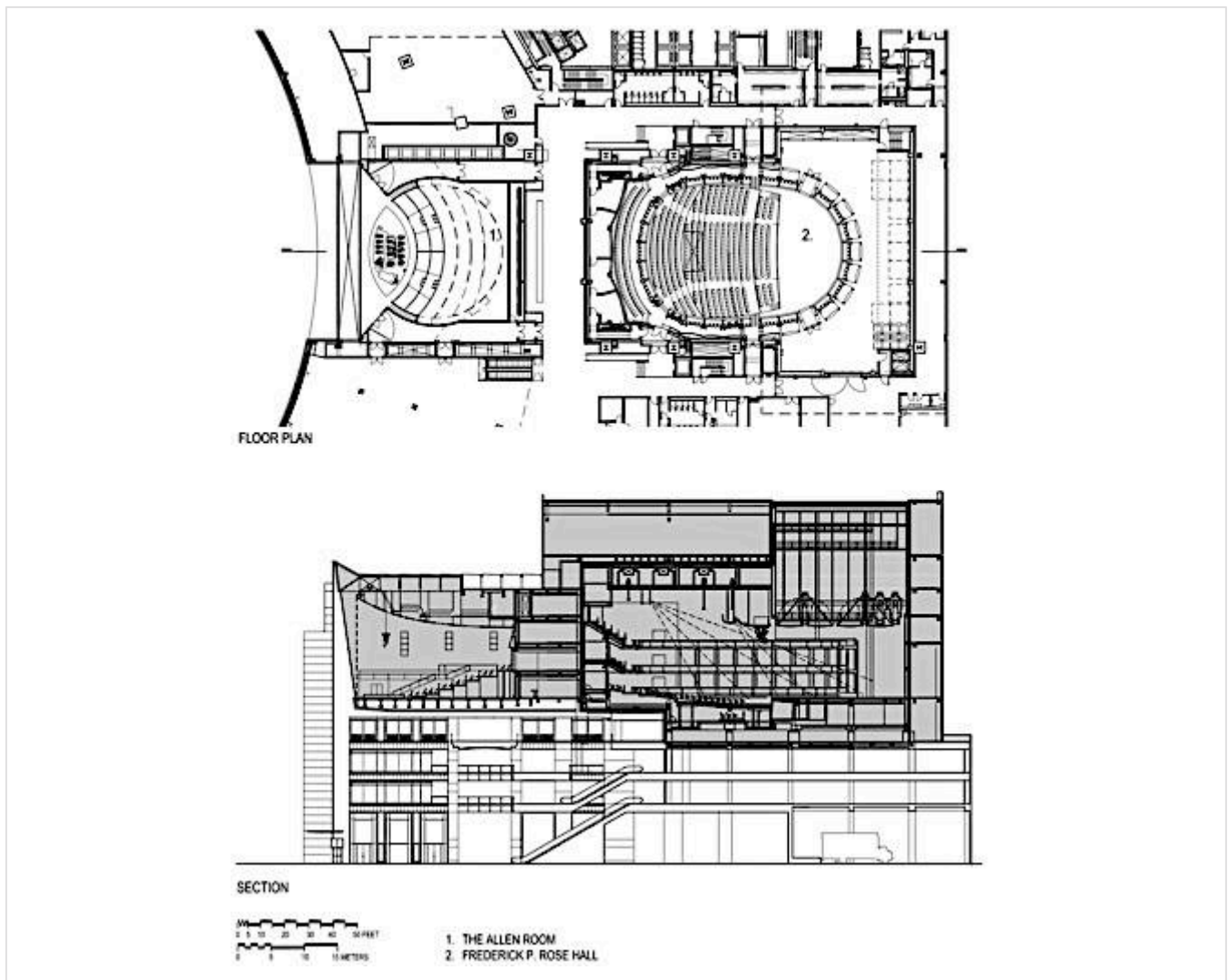
Electric Lady Studios
New York, USA

Jazz at Lincoln Center - New York, USA

Jazz at Lincoln Center opened in the fall of 2004. This 100,000-square-foot facility houses performance venues, an educational wing 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 set up for dance and opera and can also be reconfigured to provide an intimate jazz setting by surrounding the musicians with the audience seated on three levels. 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 square feet 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

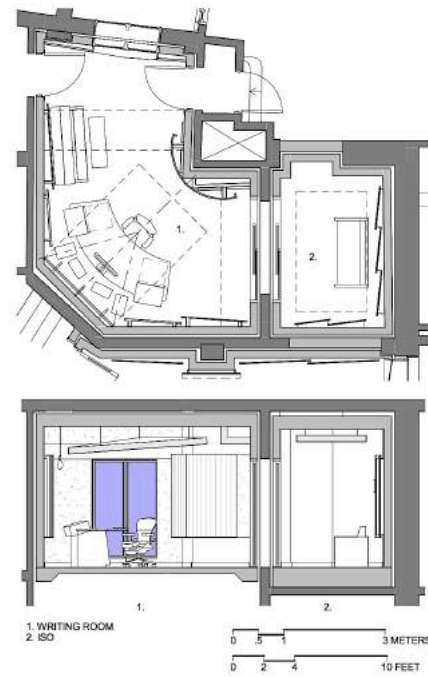
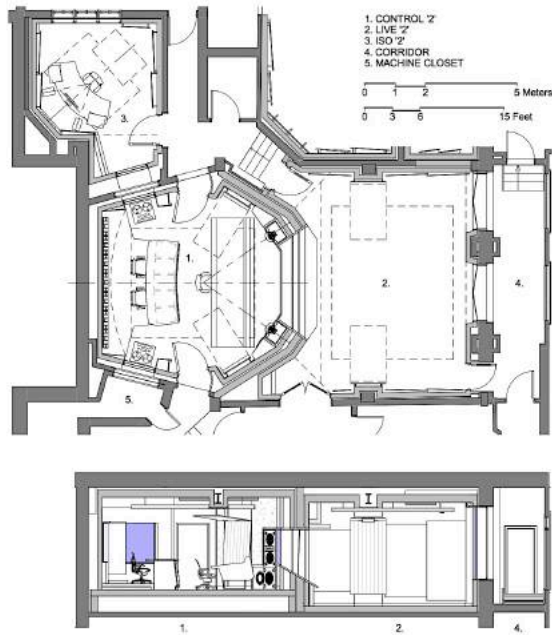


The Church Studios – London, United Kingdom

Grammy and Academy Award-winning producer Paul Epworth (Adele, Cee Lo Green) brought WSDG on board to reconfigure the famed Studio A Live, SSL Control Rooms and the addition of the Writers Room when he purchased The Church Studios. Interior aesthetics have been drawn from a palette of subtle whites which may then be 'colorized to desired mood' by a sophisticated computer program. The new, fully floated 352 sq. ft. Control Room A will continue to rely on the studios' vintage, multi-platinum SSL console and new, custom-designed WSDG/Augsburger main monitors. The 438-sq-ft-by-11 ft. high ceiling Studio A Live Room will feature impeccably tuned custom designed wall and ceiling acoustic treatments. The elegant, new ultra-modern 190 sq. ft. Writing Room includes a sleek, wall-mounted Data/Power Cable "box skirt" cabinet to support the uncluttered creative atmosphere.



The Church Studios – London, United Kingdom



Miles
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www.wsdg.com

The Church Studios
Studio 2 - London, UK

Miles
Walters-Storyk Design Group
www.wsdg.com

The Church Studios
Studio 3 - London, UK

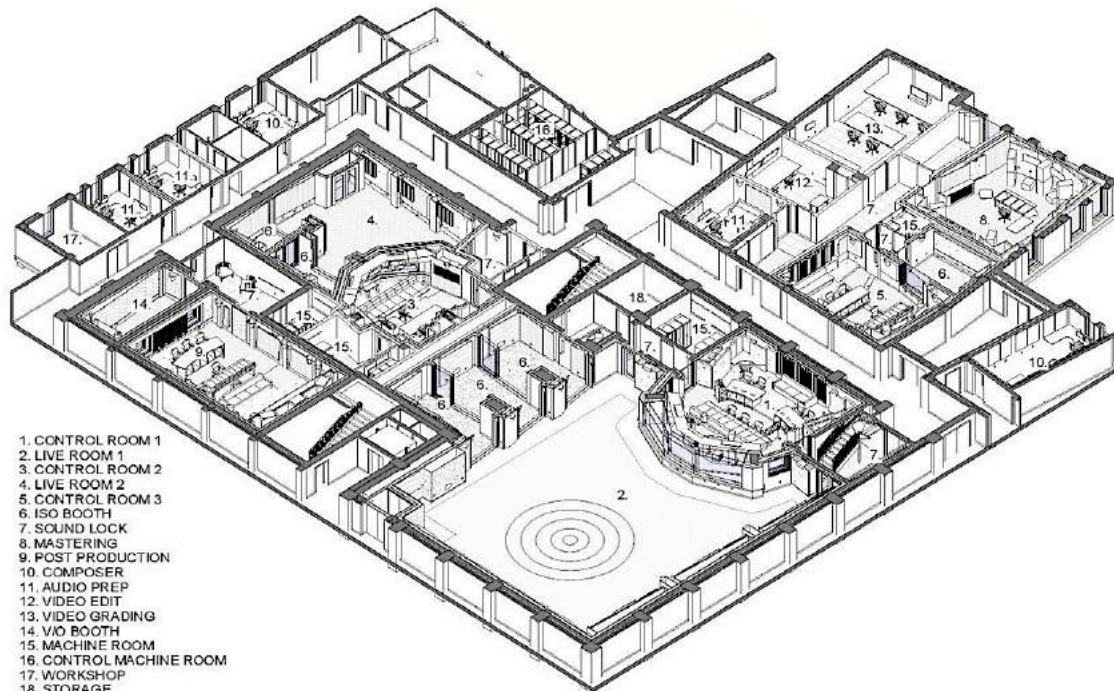


Katara Studios – Doha, Qatar

Doha, the capitol and principal city of Qatar, has welcomed the completion of Katara Studios, one of the Middle East's largest and most technically advanced recording/audio production complexes. Created by WSDG, the 65,000 ft² / 6040 m² compound, represents a major facet the Katara Committee's mandate to establish Doha as one of the most vibrant media centers on The Persian Gulf.

The sprawling, 40+ room complex features three distinct recording studios, distinguished by the 3,000 ft²/278 m² Studio 1 Live (orchestral) Room, capable of hosting 80+ musicians. Live 1 is crowned by a towering 30' / 9 m high ceiling and is equipped with a 582 ft²/54 m² VIP Lounge, designed to perform triple duty as a lounge, Iso Booth or to provide additional room volume for the orchestral recording space.

Aesthetics were a critical concern of the creative program. Katara Studios management was committed to incorporating authentic Arabic design elements throughout the complex. WSDG Co-Principal/Interior Designer, Beth Walters, and Partner/Art Director, Silvia Molho performed extensive research on Islamic and Muslim architecture. Studying the traditional, vibrantly colored Arabic palette, they developed methods to incorporate components of intricately patterned Islamic calligraphy and mosaics. By creatively weaving them throughout the ultra modern complex in a completely organic fashion, they produced a successful design model. A series of custom designed "Magic Ceiling Cubes" provide mood lighting and also serve as membranitic, low frequency absorbers. Thanks to a novel 'pocketing' scheme the Studio 1 Live Room's three oversized ISO Booths can function independently be re-configured in a variety of permutations.

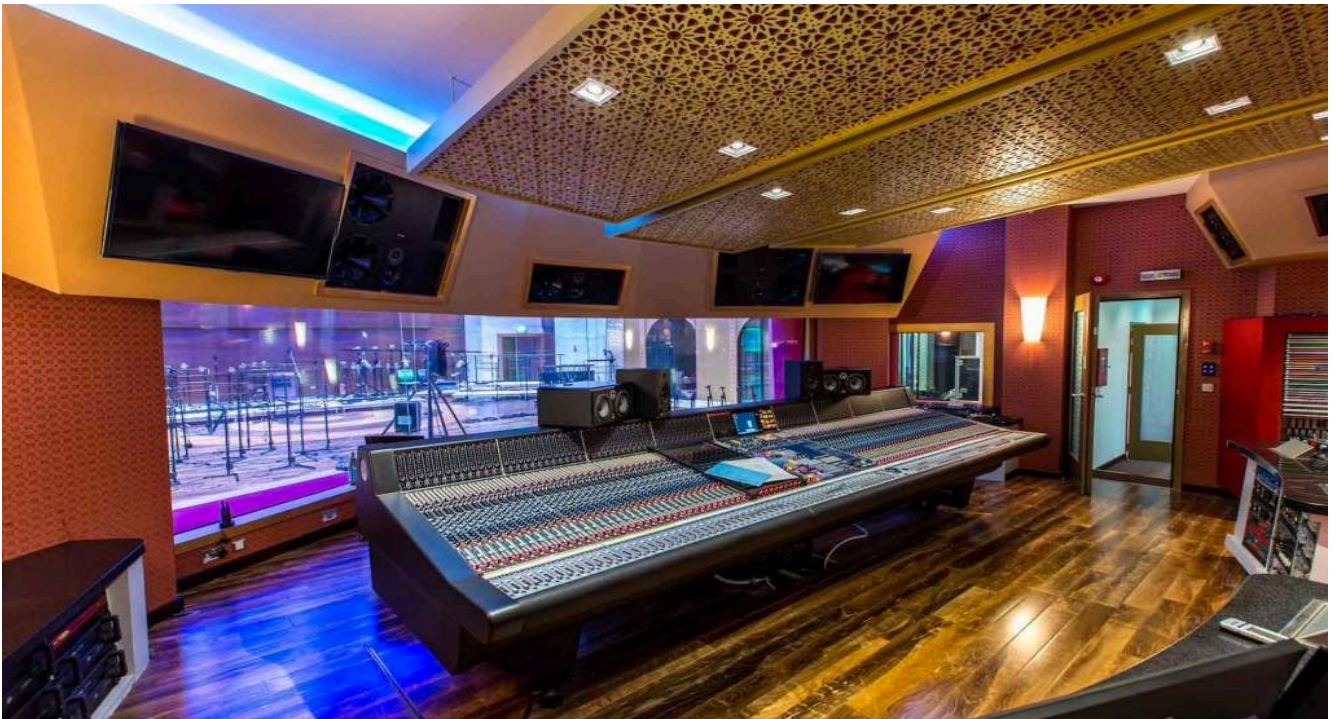


1. CONTROL ROOM 1
2. LIVE ROOM 1
3. CONTROL ROOM 2
4. LIVE ROOM 2
5. CONTROL ROOM 3
6. ISO BOOTH
7. SOUND LOCK
8. MASTERING
9. POST PRODUCTION
10. COMPOSER
11. AUDIO PREP
12. VIDEO EDIT
13. VIDEO GRADING
14. V/O BOOTH
15. MACHINE ROOM
16. CONTROL MACHINE ROOM
17. WORKSHOP
18. STORAGE

Walters-Stork Design Group
www.wsdg.com

Sout al Khaleej
Doha, Qatar

Katara Studios - Doha, Qatar

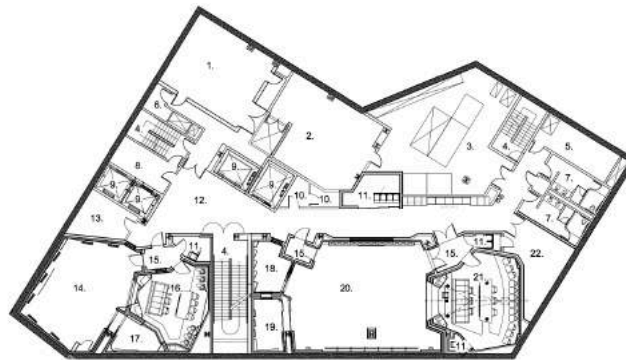


Berklee College of Music – 160 Mass Ave - Boston, USA

For one of its latest real estate acquisitions, Berklee College of Music is creating *160 Massachusetts Avenue*, a 16-story, 170,000-square-foot mixed-use building. Upon completion, it will house 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 will have seating for 400 and a new venue for student performances. It will also contain two levels below grade with recording studios designed with the highest standards of acoustic room treatment through the use of absorption and diffusion materials on the surfaces of the rooms, and soundproofing, to provide sonic isolation between the rooms.

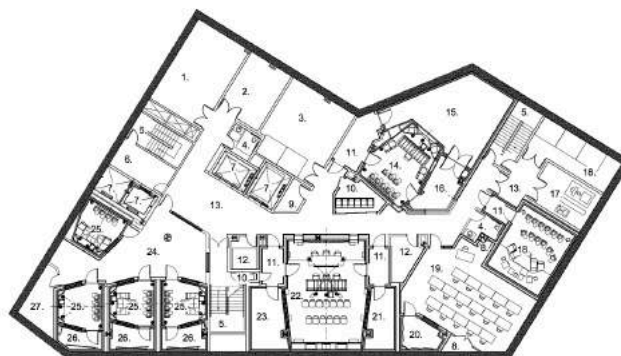
The music technology complex will include two professional-quality recording studios, a Dubbing Stage, a Mastering and Critical Listening lab, four production suites and a flexible performance venue / film scoring studio. WSDG designed the acoustic rooms in collaboration with chairs, deans, and technology lab staff from the Berklee College of Music. 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 is working on the two-story dining hall to address internal room acoustics, specifically with regard to the general intelligibility of the dining hall. Start of construction is planned for fall 2011, and the building opening for the 2014 spring semester.



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. UTILITY/TRE INS | 14. STUDIO 2 | 21. CONTROL ROOM 1 |
| 7. RESTROOM | 15. SOUND LOCK | 22. PERCUSSION STORAGE |
| 8. ELEVATOR LOBBY | | |

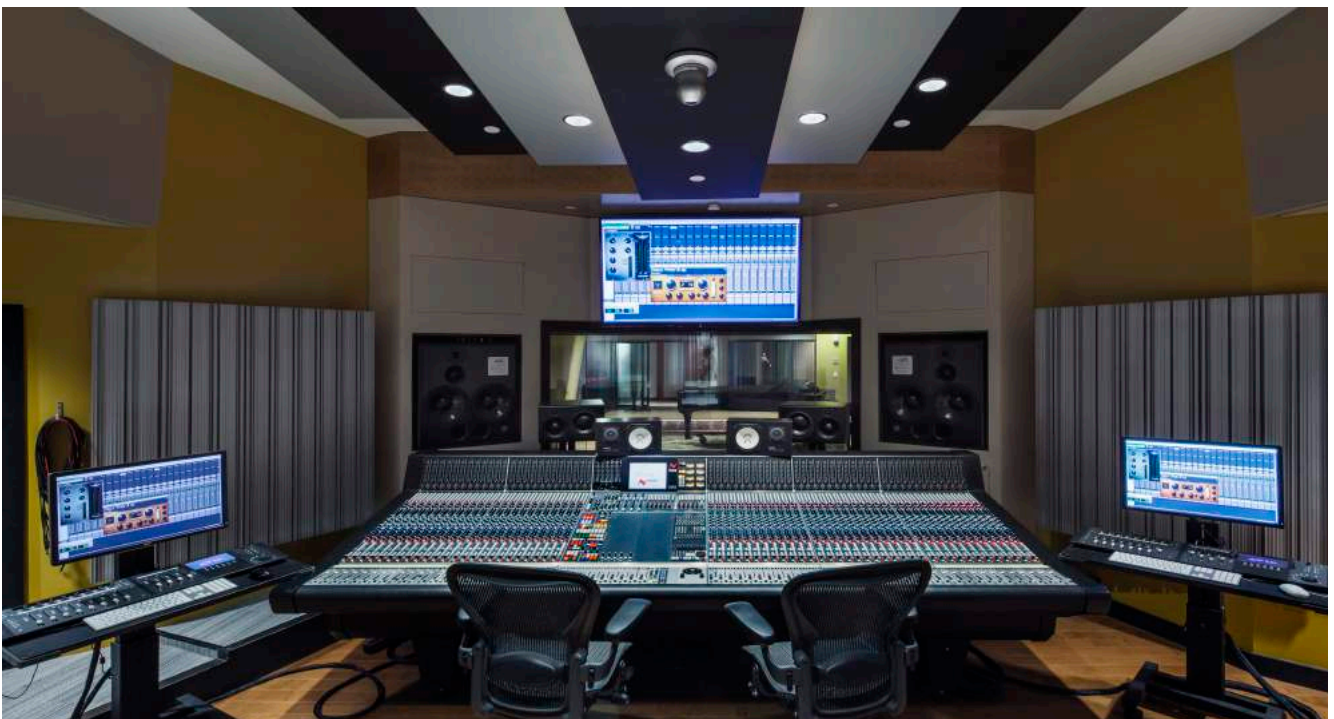


LEVEL B2 - FLOOR PLAN

- | | | | |
|--------------------------------------|----------------------|--|-----------------------|
| 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



Casa Cor Home Cinema 2009 – Belo Horizonte, Brazil

Casa Cor is the most recognized and respected interior design show in Brazil. Once a year, 10 top Brazilian cities host the event that assembles the most respected architects and interior design professionals in the country. Usually one or two houses get to be remodeled and each professional gets to design a different room in the house.

The dedicated Home Cinema, was awarded the best leisure and entertainment environment, and received two mentions of honor: for best project and the other for sustainability, because of the materials used at the acoustic treatment.

The spaced was acoustically designed with the same technology used for professional studios, including a speaker wall based on the THX specifications for Movie Theaters. The acoustical treatments were carefully studied to provide the most adequate frequency and time response for the incredible sound produced by the 7.1 Adam speakers (3 S5's at the front (L,C,R), two Sub 24 and 4 S2X for the surrounds).

Using the same symmetry of real cinema rooms, hall, arc of light on the walls, seats and tables, the space uses the latest in technology to gather friends and have enjoyed in great stile.



Casa Cor Home Cinema 2009 – Belo Horizonte, Brazil



Maracanã Stadium - Rio de Janeiro, Brazil

The temple of soccer officially called Estádio Jornalista Mário Filho, known popularly as Maracanã, is the biggest soccer stadium in Brazil. Inaugurated in 1950 for FIFA's World Cup, it has been a stage for great moments in Brazilian and international soccer including Pelé's thousandth goal. The stadium will be hosting the opening and closing of the final match in FIFA's World Cup in 2014 as well as the 2016 Olympics.

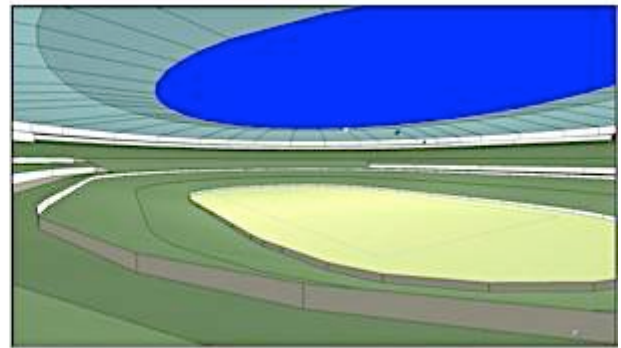
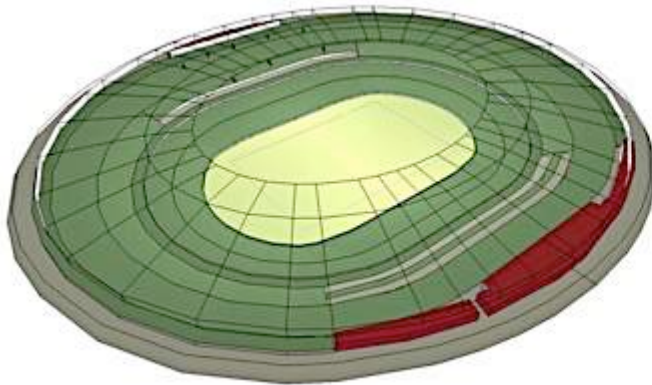
Maracanã is not only famous for soccer games, however; it also hosts concerts and other events. In 1980, Frank Sinatra sang for 170 thousand fans, 1983 saw KISS perform in front of a crowd of 250 thousand, and a Tina Turner concert in 1988 drew 188 thousand people.

WSDG designed the audio and video systems for the entire stadium and the full renovation is expected to be complete for the Confederations Cup in 2013, one year prior to the World Cup.

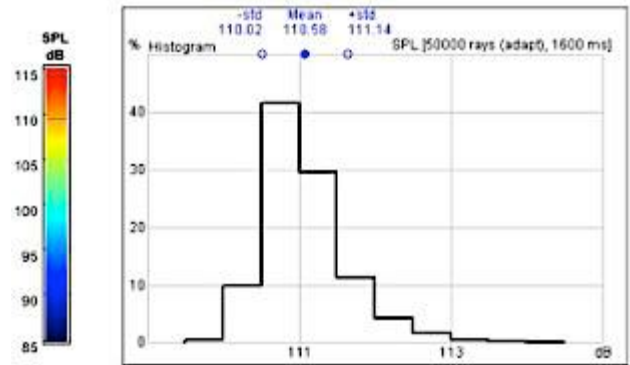
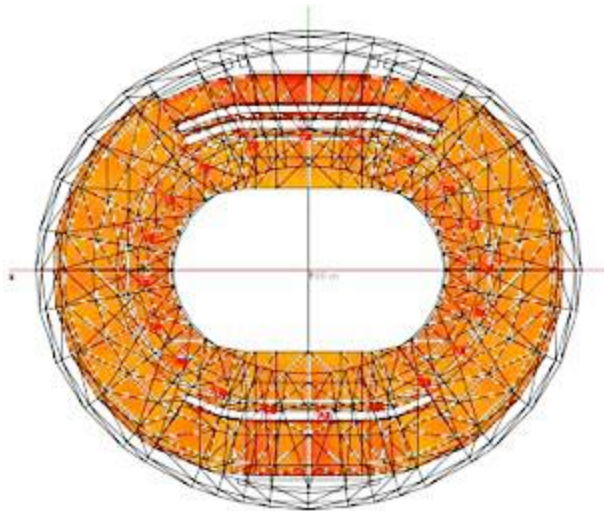
The complex architecture was simulated in detail using the most advanced electro-acoustic tools and the biggest challenge encountered the design phase was to define the final quantities and location of the PA cluster, in order to achieve the required STI and SPL coverage as required by FIFA for such complex acoustical conditions. Speaker positioning was defined for the internal and external areas, for innumerable zoning maps that can be controlled individually for more flexibility and to comply with security needs. All specific needs of the audio, video were defined to meet FIFA's requirements and WSDG has recommended the use of 4 x 100m2 Video Walls for proper visual coverage.



Maracanã Stadium - Rio de Janeiro, Brazil

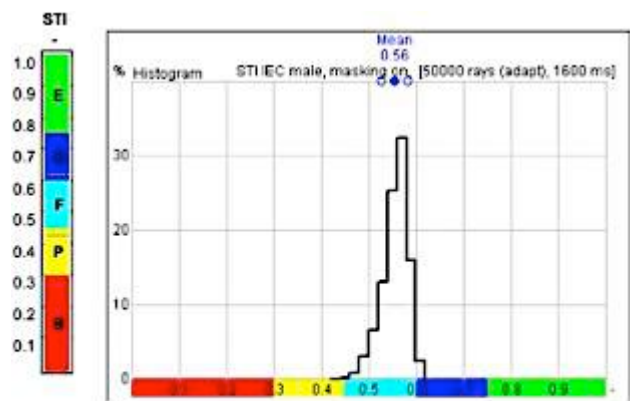
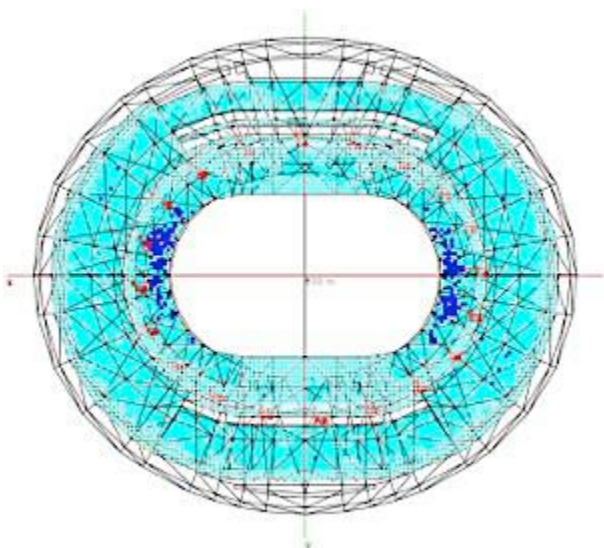


Acoustic Simulation Model



The SPL Distribution is very equal over the whole audience area with a mean value of 110dB(A).

Sound Pressure Level – Full Simulation



The mean value of speech intelligibility lies at 0.56 with the PA System at 110dB(A). Due to masking effects at these high sound pressure levels, the value can be greater with decreased level:

STI Speech Intelligibility – Partial Simulation

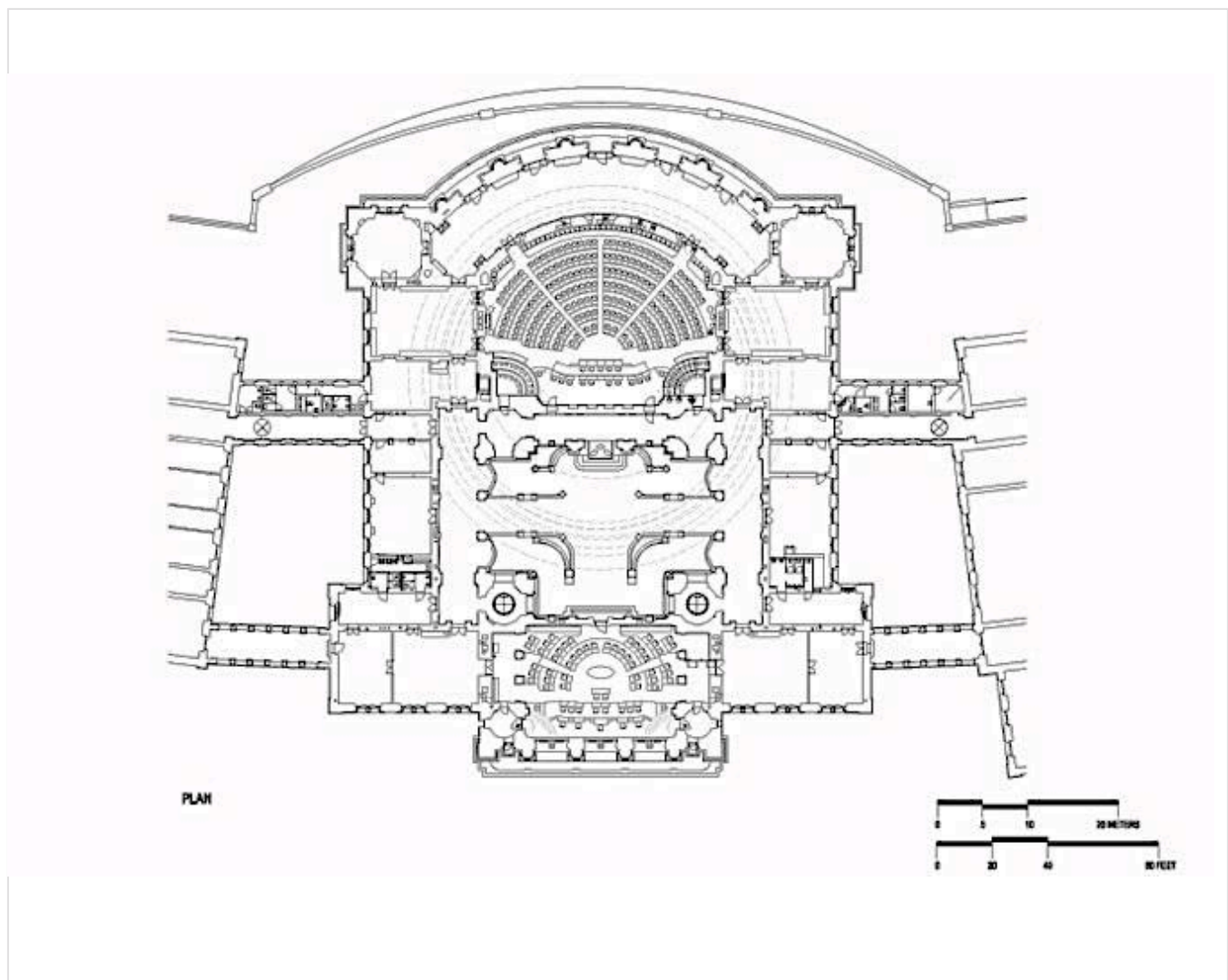
Swiss Parliament – General Assembly - Bern, Switzerland

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



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 8000 square foot complex. Located 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 audio system is run by a fully-automatable Biamp Nexia console coupled with a Martin Engineering DSP, Genelec monitors and Sennheiser wireless microphones. The lighting system is controlled by LightJockey™ via a Windows-based USB to DMX interface. Ipod docks and a full-blown 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 chain.



Peloton Flagship Spinning Center - New York, USA

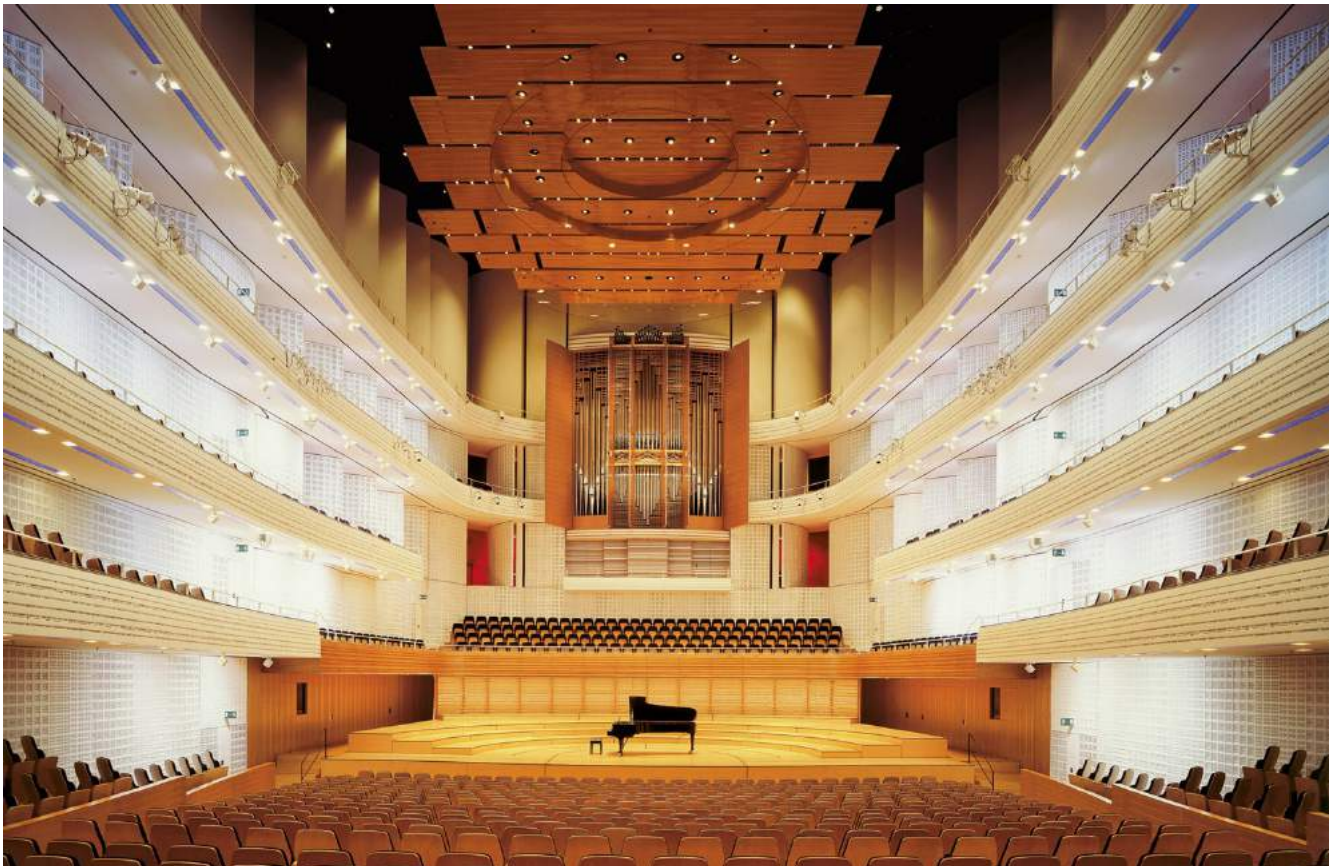


KKL Concert Hall - Luzern, Switzerland

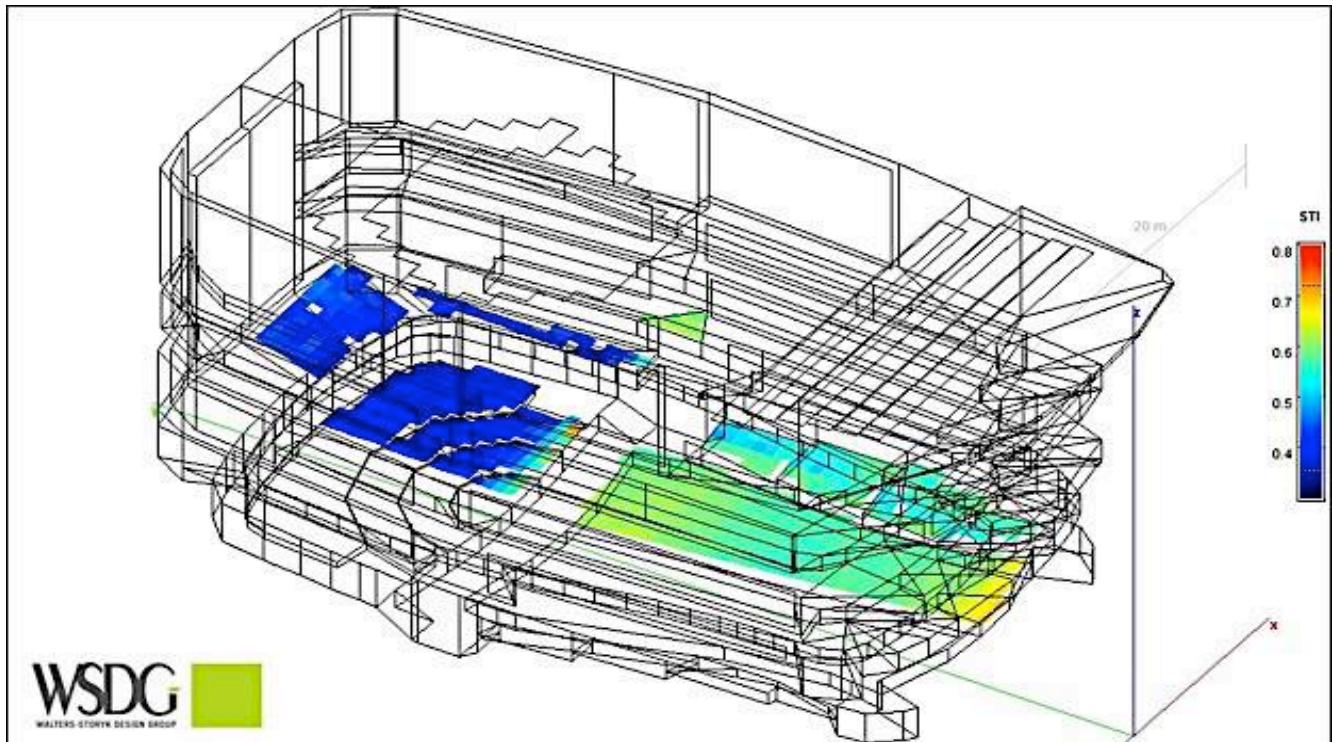
From its opening performance by the Berlin Philharmonic in August 1998, the KKL Luzern Concert Hall was recognized as one of the world's great performance centers. An international landmark, both architecturally and culturally, the complex attracts music fans from around the world to its picturesque lakeside setting. 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, an international team of acoustics experts, 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



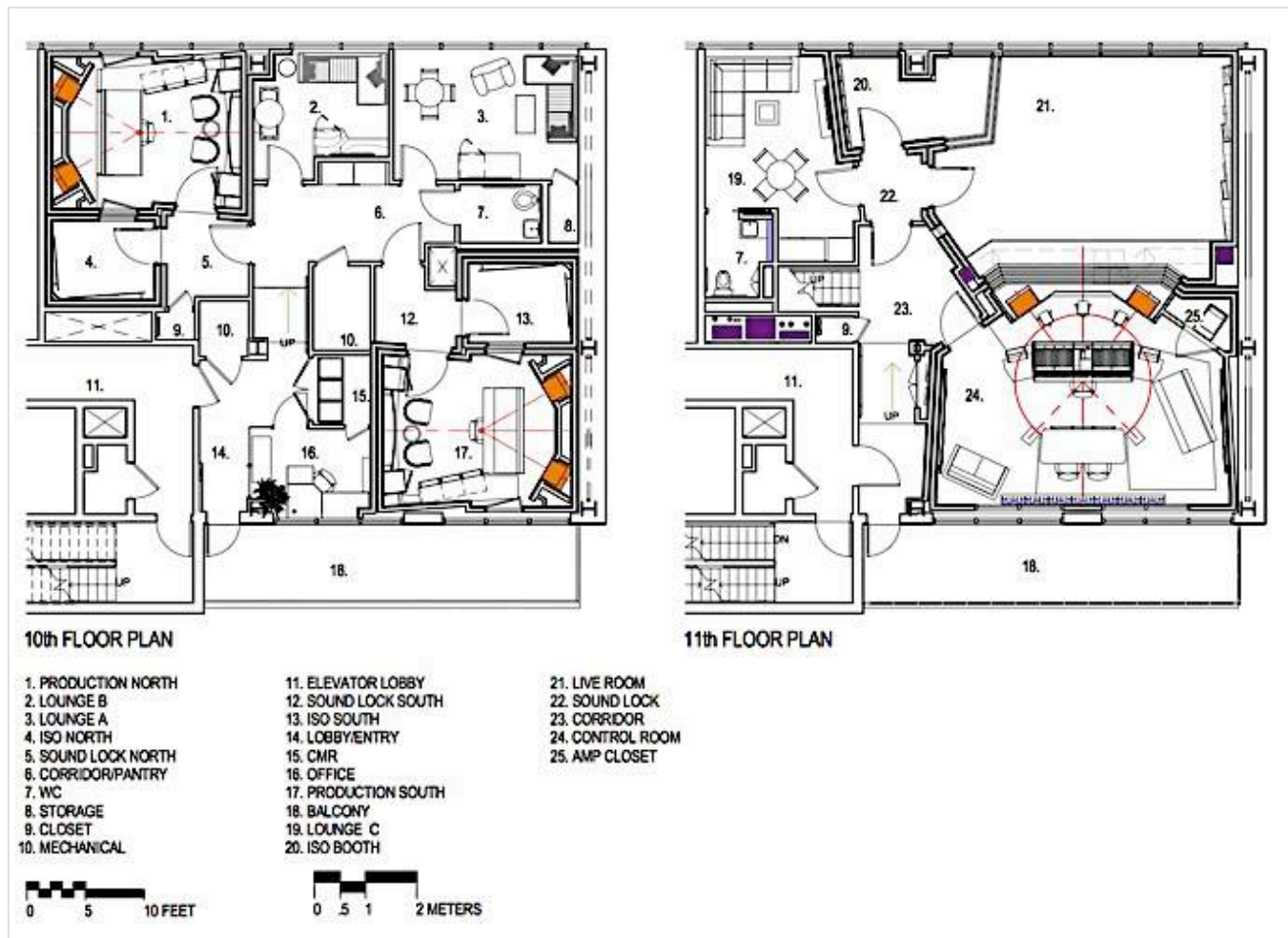
Jungle City Studios - New York, USA

Studio founder/engineer Ann Mimili has invested over ten years of experience as Alicia Keys' engineer/album coordinator/studio director, and works with artists ranging from Coldplay to Usher and Jay-Z. Miss Miniceli has created Manhattan's first true destination studio.

The challenge of creating the signature 11th floor live studio/control room directly above the two 10th floor production suites in a newly constructed lightweight, concrete building presented complex isolation challenges.

To maximize the impact of the studios' expansive North and South picture windows, WSDG floated the custom speakers in an outsized glass speaker baffle. This created a kind of transparent "wall of sound" between the live and control rooms, which provides artists and engineers with the creative advantage of full visual connectivity. In addition, our isolation details allowed us to install the expansive window wall to expose an impressive view of the Manhattan skyline and the new Highline Park, while maintaining strict isolation requirements for studio use. Test results show an NC rating of 15, which is very low for a glass wall application.

"Jungle City is one of the first major projects in our office to take advantage of the Revit 3D modeling program," reports Joshua Morris. "Revit enabled us to maximize the design by analyzing the relationships between the 10th and 11th floors. The program helped us to capitalize on adjacencies, particularly in terms of critical isolation. It also facilitated the elimination of an existing interior staircase which enabled us to capture a critical 120 square foot space which we transformed into a second 10th floor lounge to permit both suites to operate autonomously."



Jungle City Studios - New York, USA



St. Ursen Cathedral - Solothurn, Switzerland

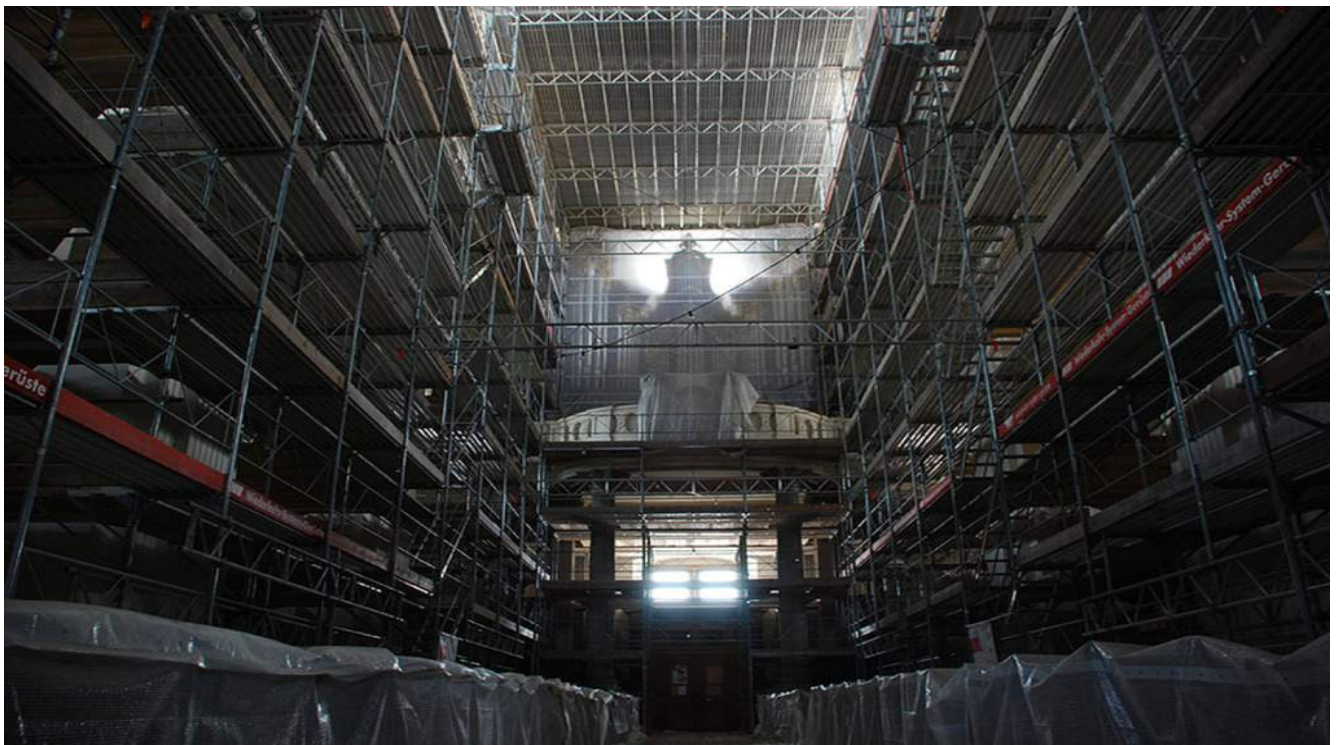
Solothurn is recognized as Switzerland's most significant baroque town. Its major hallmark and tourist attraction is the St. Ursen-Cathedral. In January 2011, a fire set by a mentally disturbed person massively damaged the Cathedral's 60m x 30m/200 x 100 sq. ft. center congregation area and side aisles. A careful assessment determined that a full cleaning and repair of all surfaces could restore the damaged room to its former glory. The restoration was coordinated by Pius Flury and Iwan Affolter of Flury und Rudolf Architekten AG. The project included all aspects of the building: surfaces, art, lighting, heating, electrical, and electro-acoustics infrastructure. WSDG was engaged to design and supervise installation of the electro-acoustics system.

Early on in the planning process, extensive acoustical measurements were conducted, to both obtain a "status quo" documentation and to serve as a base for the predictive simulation software employed. Although RT60 Reverberation Times exceed 6 seconds at 500Hz – and a reduction would have been helpful to achieve improved speech intelligibility, changing the materialization of the building was not an option. Moreover, new measurements completed following the restoration revealed that the RT60 Reverberation Times were even higher after the accumulated dirt and gray burn residue were removed.

To resolve these issues, a number of CVS Clearvoice Systems Evolutone 3000, Evolutone 2000 and Evolutone 1000 steerable array loudspeakers were specified based on their inherent long-range throw, highly sophisticated steering algorithms and high speech intelligibility characteristics. The loudspeakers are driven by a networked BSS Soundweb DSP backbone, controlled by a Crestron touch panel. Gateways to other building management components (lights, heating, church bells etc.) were also incorporated to facilitate total building control from a centralized panel. WSDG engineered a number of custom solutions including auxiliary in and outputs for broadcast trucks, exterior courtyard locations and a time-critical audio and video monitoring and communication system for two organ players positioned 1/5 seconds (60m/200 ft.) apart during their duet performances.



St. Ursen Cathedral - Solothurn, Switzerland



Restaurant T - Buenos Aires, Argentina

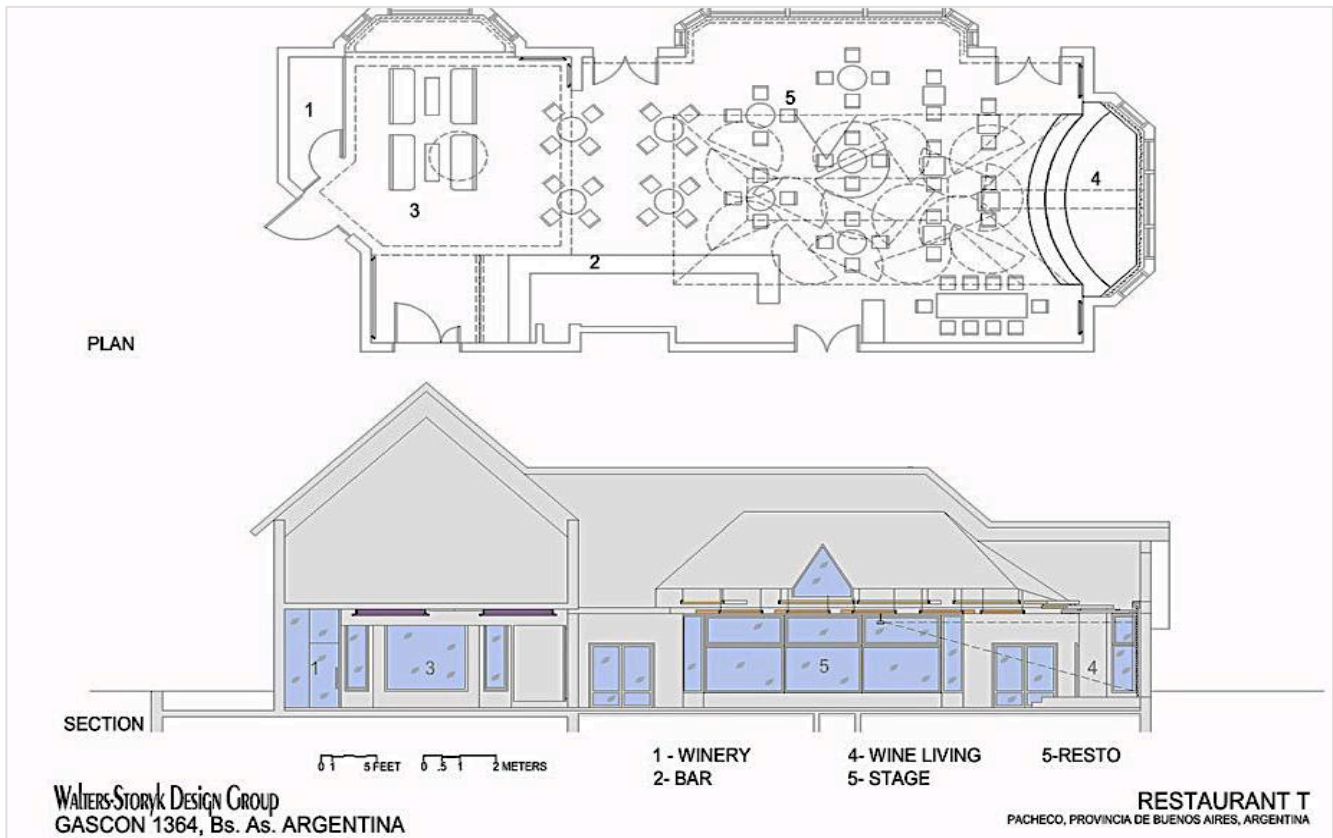
Restaurant T is an upscale gourmet restaurant, located in the Pacheco Golf Club, a gated community & country club in Nordelta, north of Buenos Aires. In addition to delicious food the elegant dining room offers two distinctive special attractions, special lighting capable of changing the entire atmosphere 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



Mineirão Stadium - Belo Horizonte, Brazil

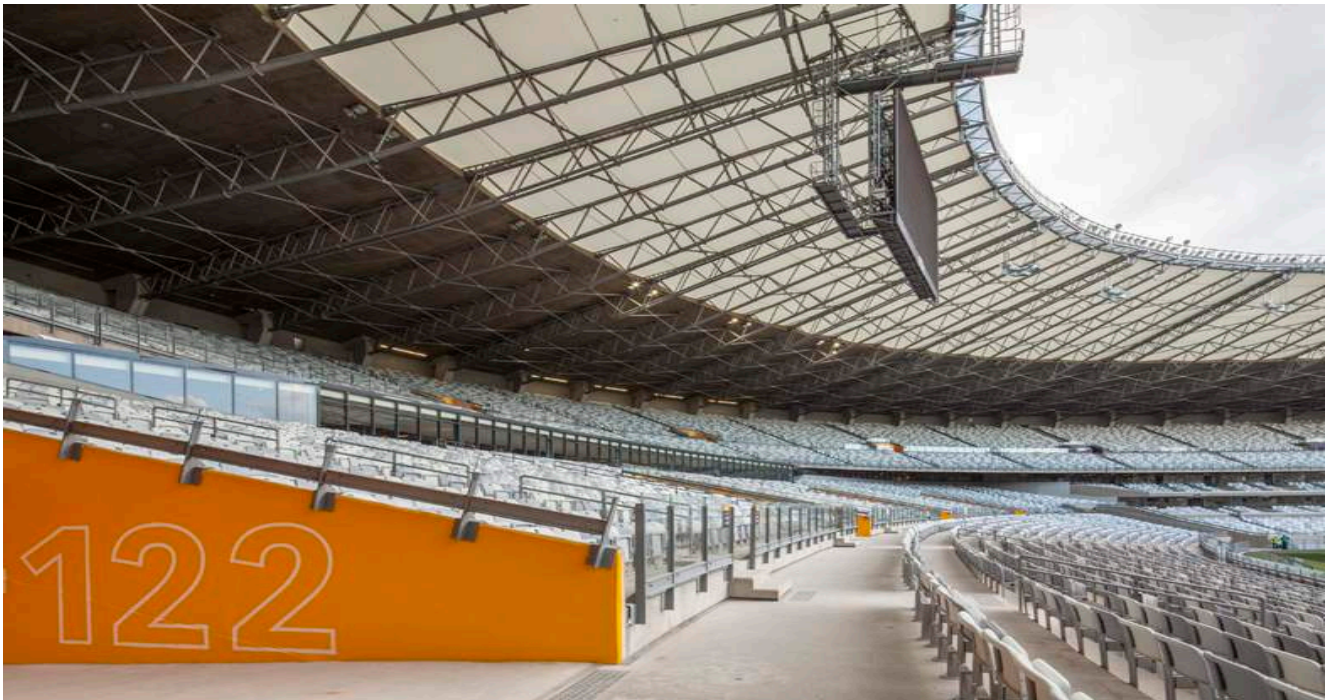
The second largest sports arena in Brazil, the 62,160-seat Mineirão Stadium was originally built in 1965. When Belo Horizonte was named one of 12 cities to host the 2014 World Cup, officials immediately recognized the need for a significant Audio/Video and acoustics upgrade to enable the 45-year-old complex to comply with FIFA technical requirements and 21st Century fan expectations.

WSDG was retained to design the Acoustic Program and complete Audio and Video Systems for the entire stadium including all public areas, a total of 300,000 square meters (3,000,000 sq. ft). Mission specs encompass: Inclusive acoustical treatments, a comprehensive sound system, serving the soccer field, audience and, internal spaces such as VIP rooms, access areas, and offices; Video systems, including two large LED video walls (85 square meter/915 sq. ft.) each; Video displays throughout the stadium; And, fully integrated Audio and Video Control Rooms

Primary facility management concerns focused on the level of sound comfort and intelligibility in relation to the RT60 reverberation time required to meet stipulated FIFA STI mandates. Renato Cipriano, Partner/GM, WSDG/Brazil, explains that, "Our sophisticated simulation programs enabled us to assess and 'auralize' the entire complex. We identified extensive sound reflections throughout the arena and concluded that acoustical absorption needed to be installed at the inner ring of the audience sector to achieve the required STI values. Speaker positioning was defined for the internal and external areas, and for numerous zoning maps, which can now be individually controlled for increased flexibility and security purposes. All specific audio and video systems, and control room speaker selections, were designed to meet FIFA requirements. Additionally, we recommended incorporating a Video Wall instead of a traditional scoreboard."



Mineirão Stadium - Belo Horizonte, Brazil



Qatar Television - Doha, Qatar

Qatar Television is a world-class TV production complex created to bring relevant content from Qatar to a global online and TV audience. Broadcast channels include: Tourism, Business, Technology, Lifestyle, and Education. The QTV complex is also designed to produce original content, press conferences, special events and a wide range of broadcast and online programming.

A QTV, Technical Executive attending the Broadcast & Film Africa 2012 Conference in Kenya last year, met with WSDG project engineer Marc Viadiu a fellow attendee. The executive described their need for precise acoustical measurements and recommendations for reducing reverberation time on their three primary studio sets. Viadiu provided the executive with examples of WSDG's testing procedures and expertise in broadcast production facility design. Company Partner/Director of International Relations, Sergio Molho made an initial site visit in mid-October and returned with Viadiu in November to perform acoustic measurement and simulation tests.

QTV has three permanent program sets. The 14,788 sq. ft./39.4 ft. high *News Show* and 10,764 sq ft./39.4 ft. high *Evening Show* sets live within the TV Production Complex, The 3230 sq. ft./ 26.2 ft. high *Morning Show* set is situated within "The Pearl," a large commercial mall. WSDG fine-tuned the interior room acoustics, and resolved disparate isolation issues for all three studios. The installation required: 1250 sqm of Melamine foam, (61 cubic meters) and 700 sqm of polyurethane foam (21 cubic meters), At the client's request, it is completely undetectable to viewers. The highly effective custom acoustic absorption panels were fabricated to international broadcast industry standards and installed within a hard 60-day deadline to enable the station to begin scheduled broadcasting on December 16, 2012. WSDG also supervised the design, construction and certification of two 9' high, 3.5' wide custom acoustic doors for the Evening Show Studio. Those doors, each weighing a full ton, were installed during the second phase of the project in February 2013.



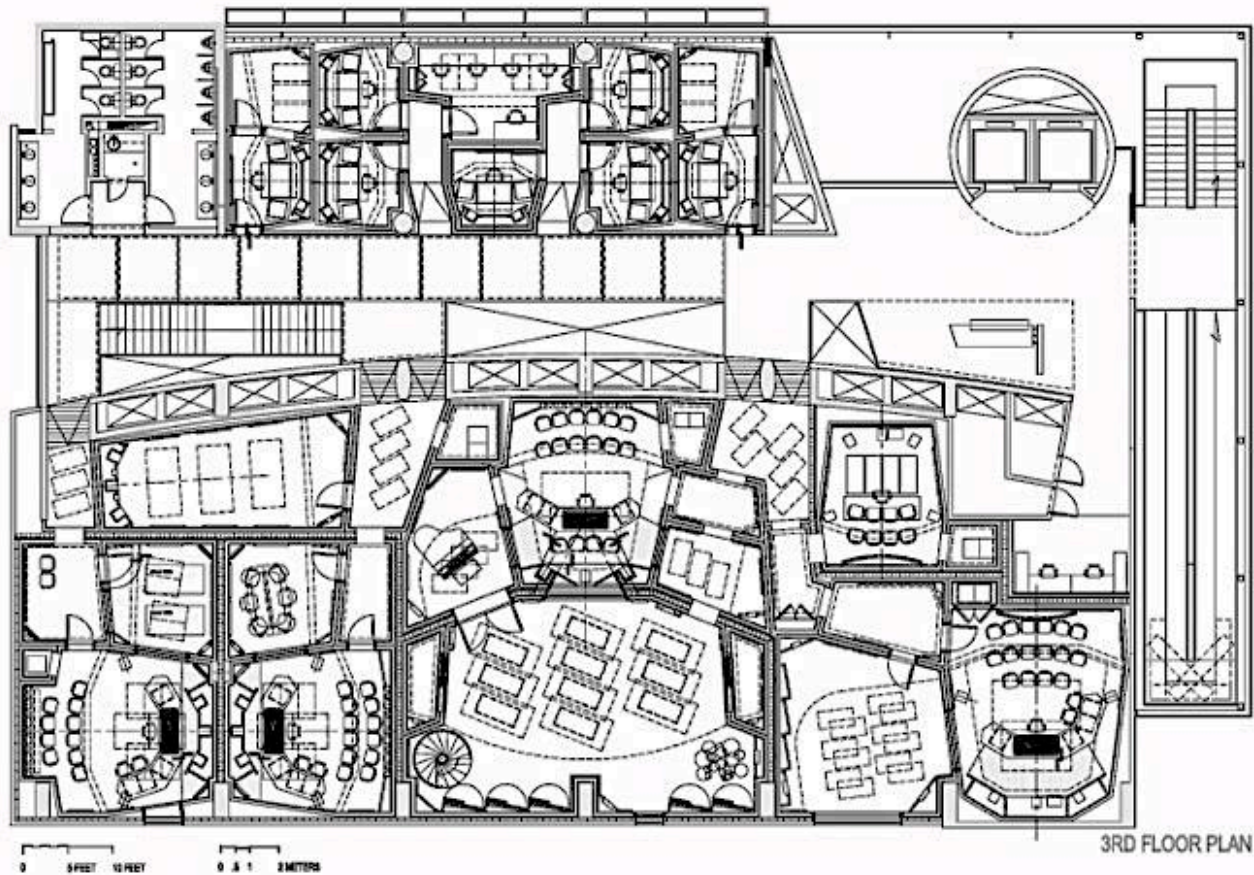
Qatar Television - Doha, Qatar



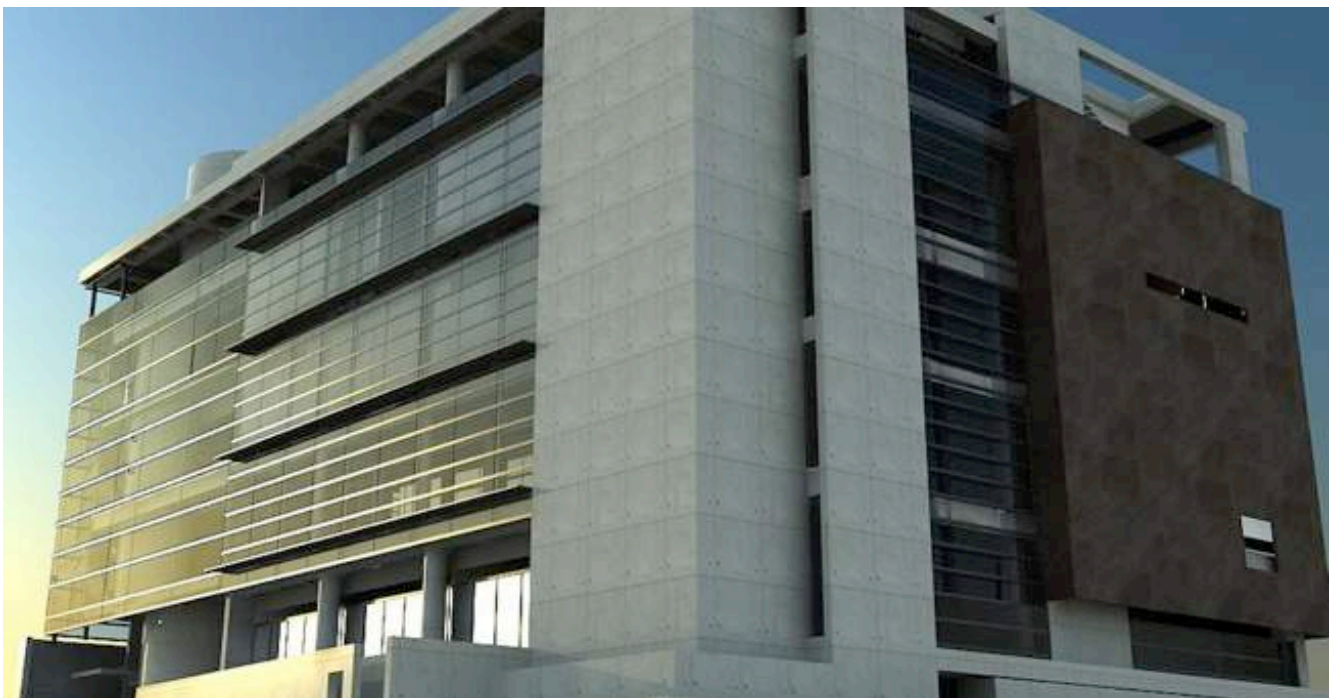
Javeriana University - Bogotá, Colombia

One of the largest universities in the country, the Pontificia Universidad Javeriana caters to over 22,000 students and 3,500 professors in its 1,882,000-square-foot campus in Bogotá, Colombia. The university campus consists of 45 buildings, including a hospital, a radio station, libraries and the Ático Center, the first high-tech information and communications resource center in Latin America for the development of education, image and design. This nine-story building is the region's most ambitious audio/visual project to date.

The Ático Center, with two of its stories being underground and the other seven above ground, has two TV studios with control and post-production rooms, scenery lighting and make up workshops, as well as storage warehouses for live outdoors filming equipment. Two of its floors are completely dedicated to new media and architecture, animation and 3D drawing. Another three floors will accommodate audio recording studios, post-production rooms for video, film mixing, mastering, audio classrooms and a main auditorium for digital cinema. Overall, the facility will hold 24 specialized areas and recording studios, all of them designed to the highest international standards using the room within a room concept in regards to acoustics and architecture, and being completely isolated from one another to ensure that all of these rooms are operational at the same time without any interference between them. WSDG provided all master planning and acoustic design for audio technology spaces.



Javeriana University - Bogotá, Colombia

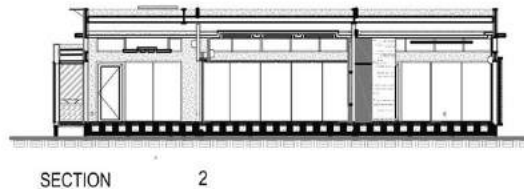
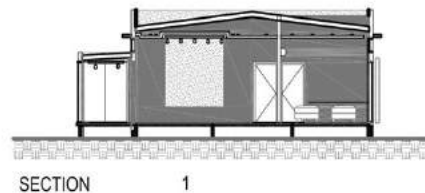
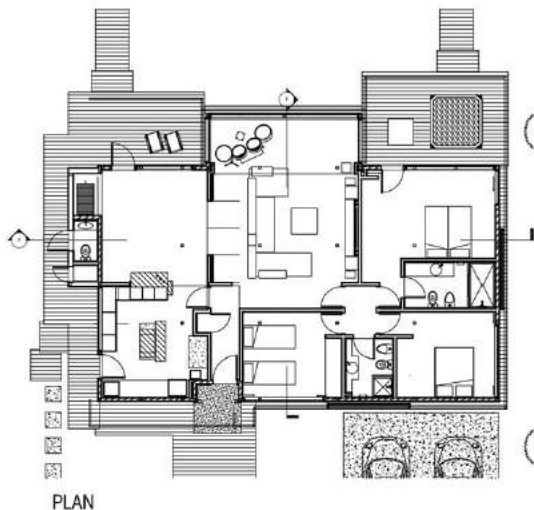


Casa Ezeiza - Buenos Aires, Argentina

Casa Ezeiza is located in the golf area of a country club in Ezeiza, in the outskirts of Buenos Aires near the city's international airport. The goal was to build a home suited to the needs and hobbies of the family members as well as a recording studio/rehearsal room/home theater. With the goal of keeping construction costs down, other less traditional methods were considered. Ultimately the projected building size was reduced while simultaneously increasing its flexibility.

Thanks to the use of steel framing, the construction process was speedy and economical. The house was built one meter above the street level, to create further isolation. Double glass windows were employed to guarantee ideal acoustic and thermal isolation, consistent with sustainable architecture, and positioned for maximum energy efficiency and natural lighting benefits. The interior design focused on creating a comfortable, modern living space. Musical instruments and recording technology are displayed as works of art.

The house features automated control over the lighting, audio and video systems in the living room area. The audio system is also automated throughout the dining room, kitchen, garden and pool area. The house can be set to a "party" mode, where all the rooms play the same music at once, and there is also a "show" mode. The audio and lighting are linked to pre-programmed scenes which create a special ambiance for every situation. The kitchen and dining area are unified with a 'loft-like' design, with large windows allowing golf course views. The bedrooms are graced with acoustical clouds and indirect lighting. Service areas are large and comfortable, and hallways were eliminated to maximize living space.



CASA EZEIZA
BUENOS AIRES, ARGENTINA

Walters-Storyk Design Group

Casa Ezeiza - Buenos Aires, Argentina

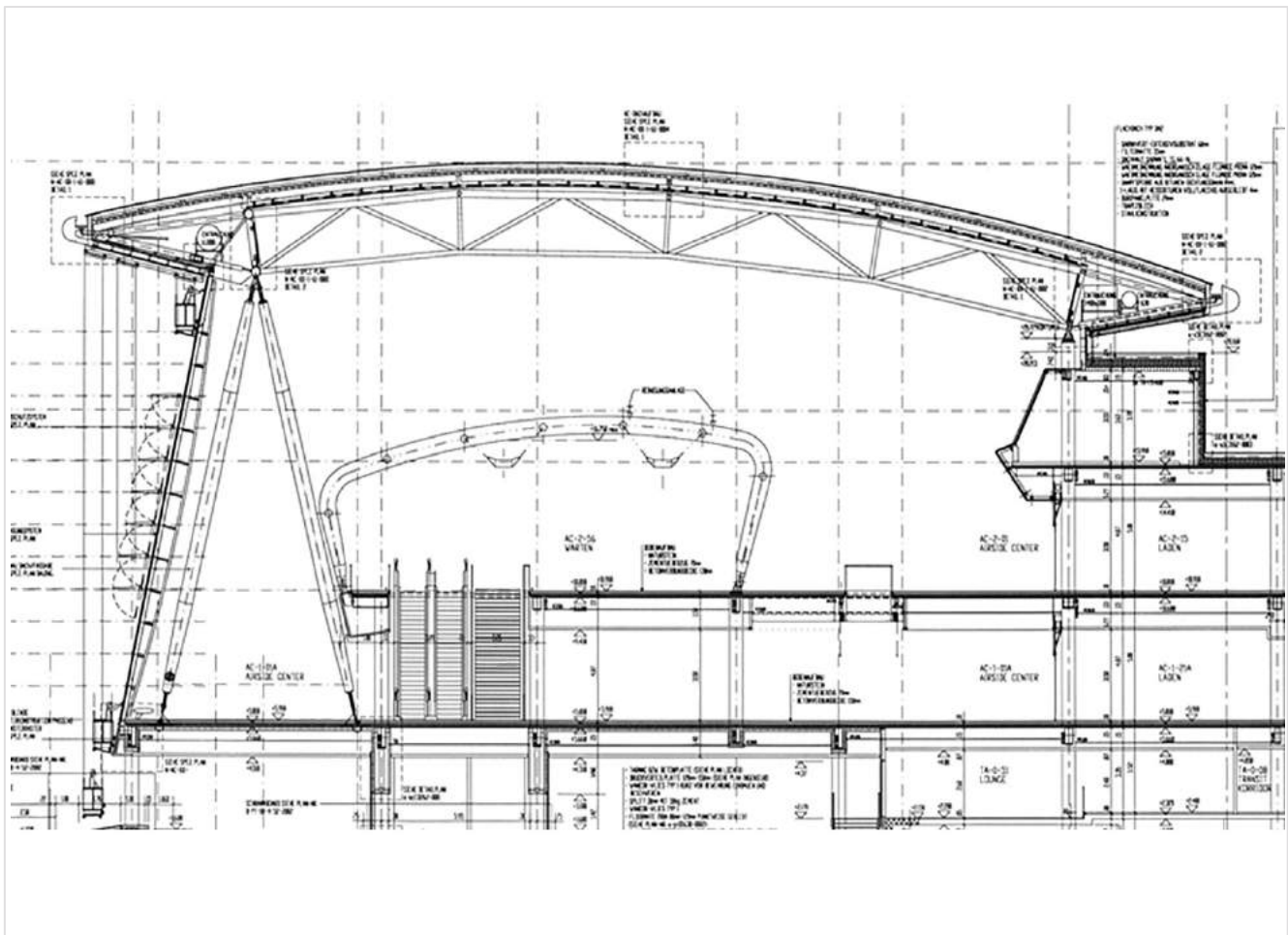


Flughagenkopf – Zurich Airport - Zurich, Switzerland

The Airside Center (A500), located between the existing fingerdocks A and B, acts as a focal point for travellers at the airport. Many new shops and restaurants are opened. The Airside Center project comprises of the new Airside Center, 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 electroacoustical design of both these new facilities by the responsible electrical engineering firm, Ernst Basler + Partner AG. WSDG's project scope comprised Definition of electroacoustical project requirements (e.g. Speech Intelligibility, Sound Pressure Levels, Frequency Responses, Coverage etc.) in line with the appropriate national and international standards, including IEC 60849; Electroacoustical design and optimization with assistance of computer simulations and other means of calculation; Specification of electroacoustical components, supervision of driver electronics to the electroacoustical 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 close to invisible. Ancillary specified loudspeakers for support spaces and adjacent areas are highly directional units from Frazier and HK.



Flughagenkopf – Zurich Airport - Zurich, Switzerland



PostFinance Arena - Bern, Switzerland

Originally built in 1967 the PostFinance Arena (formerly known as Esstadion Allmend and Bern Arena), is the home stadium for the local SC Bern hockey team. With seating for 17,131 fans, PostFinance also boasts the world's largest standing room grandstand, a capacity of 10,422 benches. In 2009, the Arena's management group invested \$100 million in an extensive renovation program, to ready it for the HHF World Championships. This substantial upgrade included the installation of a new hockey arena, and the total redesign of the VIP seating area. The venue has subsequently hosted a number of prestigious events, including the Inaugural Victoria Cup.

WSDG was engaged to perform a series of acoustic tests and measurements to facilitate the upgrade of the electro acoustics system that had been implemented during the last major remodeling in 2009. The system was re-hung (under a new and larger HD video cluster) in the summer of 2013. WSDG was once again retained to engage improved software programs and consult on additional fine tuning of the electro acoustics system. Extensive predictive acoustic testing produced data which suggested that steeper shooting angles for the loudspeaker system would enable the stadium to optimize the system. The resulting modifications in speaker placement and overall system 'fine tuning' have appreciably improved speech intelligibility throughout the PostFinance Arena. This provides fans with enhanced appreciation of the live game coverage, and also further insures their safety thanks to the upgraded public address system.



PostFinance Arena - Bern, 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

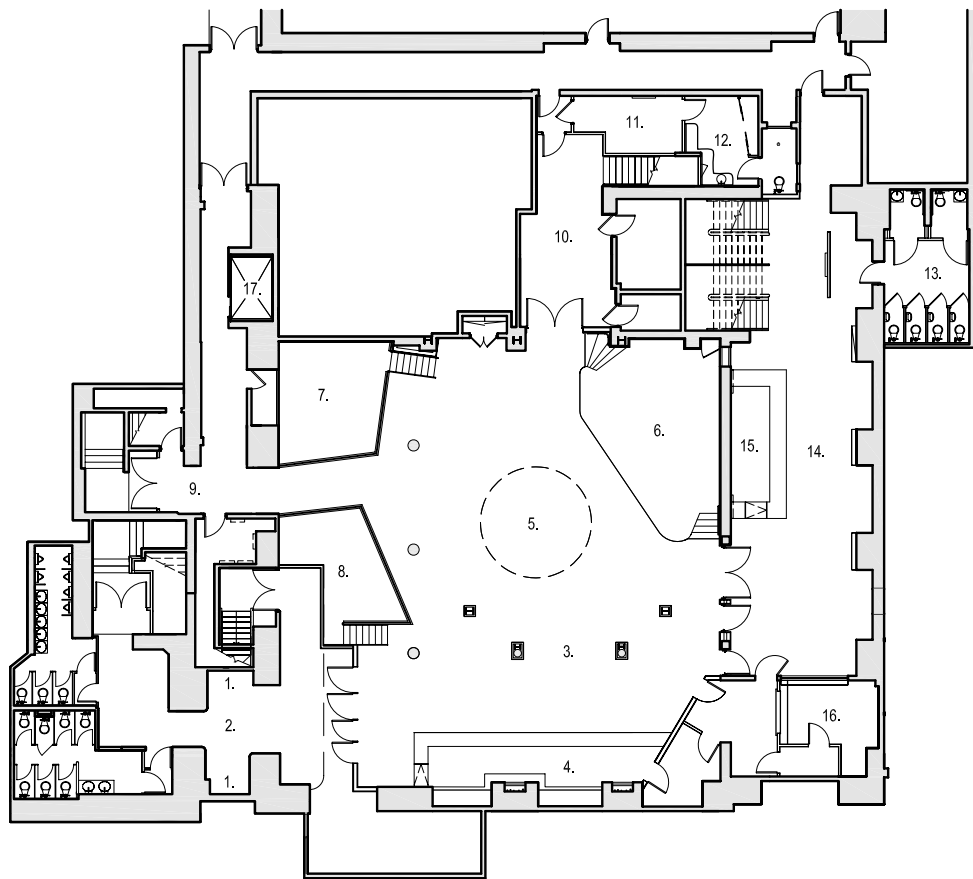


Le Poisson Rouge (LPR) - New York, USA

Le Poisson Rouge (LPR) was built in 2008 at the site of the historic Village Gate venue in Greenwich Village in NYC. The club features a flexible and intimate performance space with a capacity of 800 people (250 seated) as well as a 23' diameter hardwood sprung dance floor. The stage itself is located in the corner of the performance space and measures 28' x 21' with options for increasing or decreasing the overall footprint. The 16' diameter trundled round stage can be used in the center of the space as needed, for example to hold LPR's 9' concert grand piano.

In addition to having a fully featured, flexible performance space, LPR also sports two cinema-sized screens, both of which feature surround sound. The lounge directly adjacent to the performance space can hold approximately 130 customers for concurrent events.

LPR was designed with two elevated VIP Opera Boxes as well as two private entrances for high profile guests or performers. The kitchen boasts a full catering capability, a concert bar menu and a daytime lounge menu. The club has featured a wide range of performers including Norah Jones, Mos Def, Paul Simon, Lou Reed, Moby and many others. WSDG provided all architectural, acoustic and A/V design for this project.



BASEMENT LEVEL FLOOR PLAN

0 1 2 3 METERS 0 5 10 FEET

- | | | |
|------------------------------|----------------------|------------------------|
| 1. MERCHANDISE AREAS 1 AND 2 | 7. OPERA BOX | 13. BATHROOM VESTIBULE |
| 2. CORRIDOR - 1 | 8. OWNER'S BOX | 14. EXHIBIT SPACE |
| 3. MAIN SPACE | 9. REAR CORRIDOR - 2 | 15. EXHIBIT SPACE BAR |
| 4. MAIN SPACE BAR | 10. VESTIBULE | 16. COAT CHECK |
| 5. PORTABLE STAGE | 11. GREEN ROOM | 17. ELEVATOR |
| 6. FIXED STAGE | 12. DRESSING ROOM | |

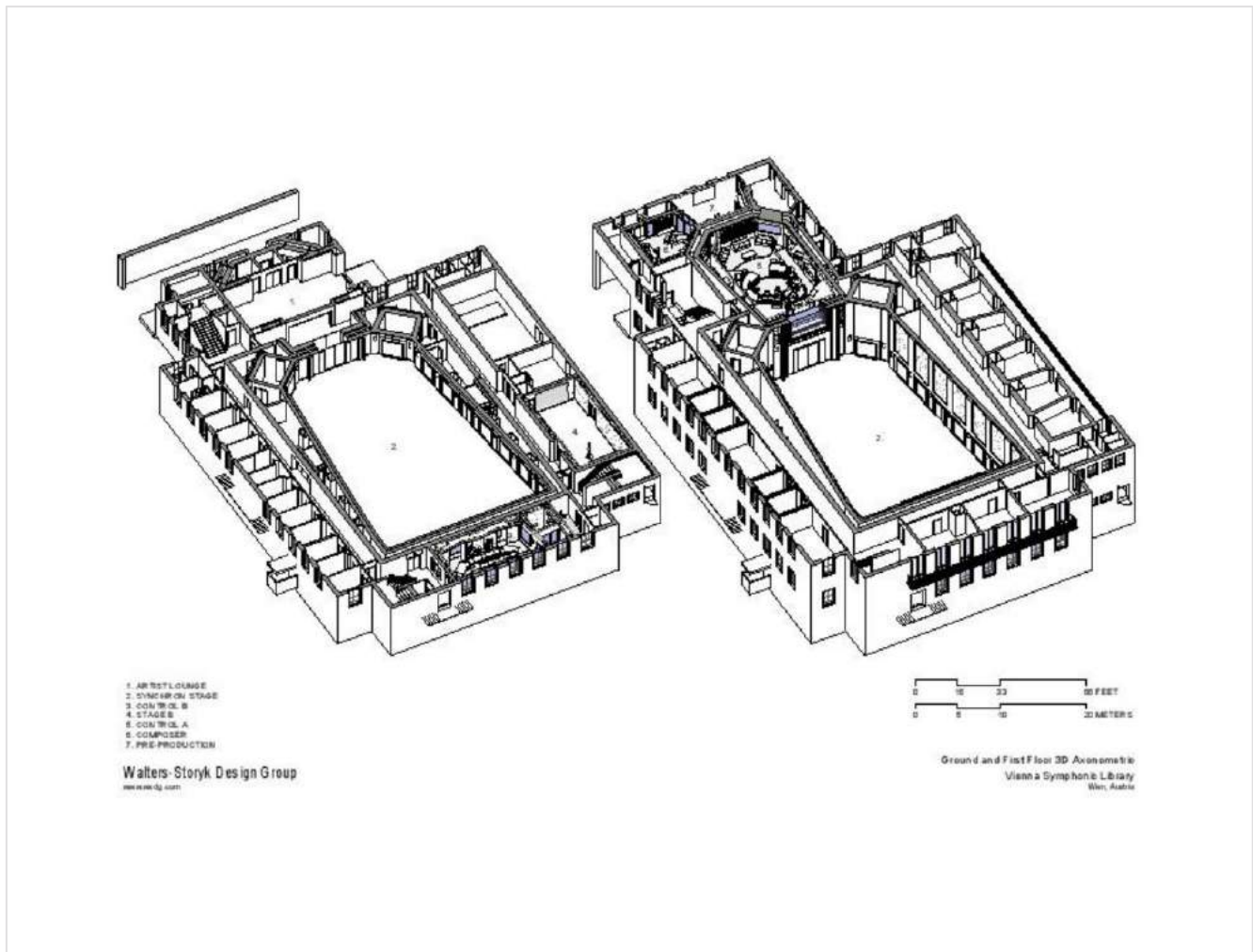
Le Poisson Rouge (LPR) - New York, USA



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 worlds only scoring stage capable of merging proprietary software innovations with traditional technologies and procedures

Initiated in 2012, the scope of the two-year+ assignment required WSDG's wide-ranging facility planning services. Beginning with documentation of the overall state of the property, we also covered room and structural acoustical measurements and schematic conceptual planning. The Design Development Planning stage included interior design by U.S.-based 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 Network with input and output interface connection points at all relevant locations, serves as the facility's network backbone.



VSL Synchron Stage - Vienna, Austria

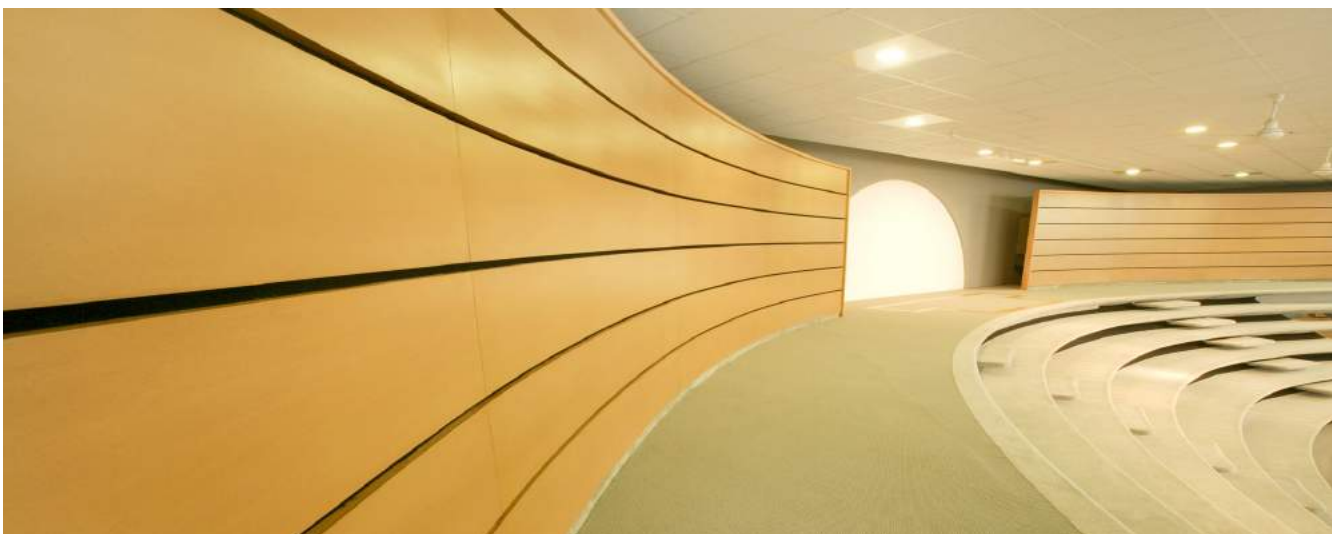


Iglesia Los Olivos - Buenos Aires, Argentina

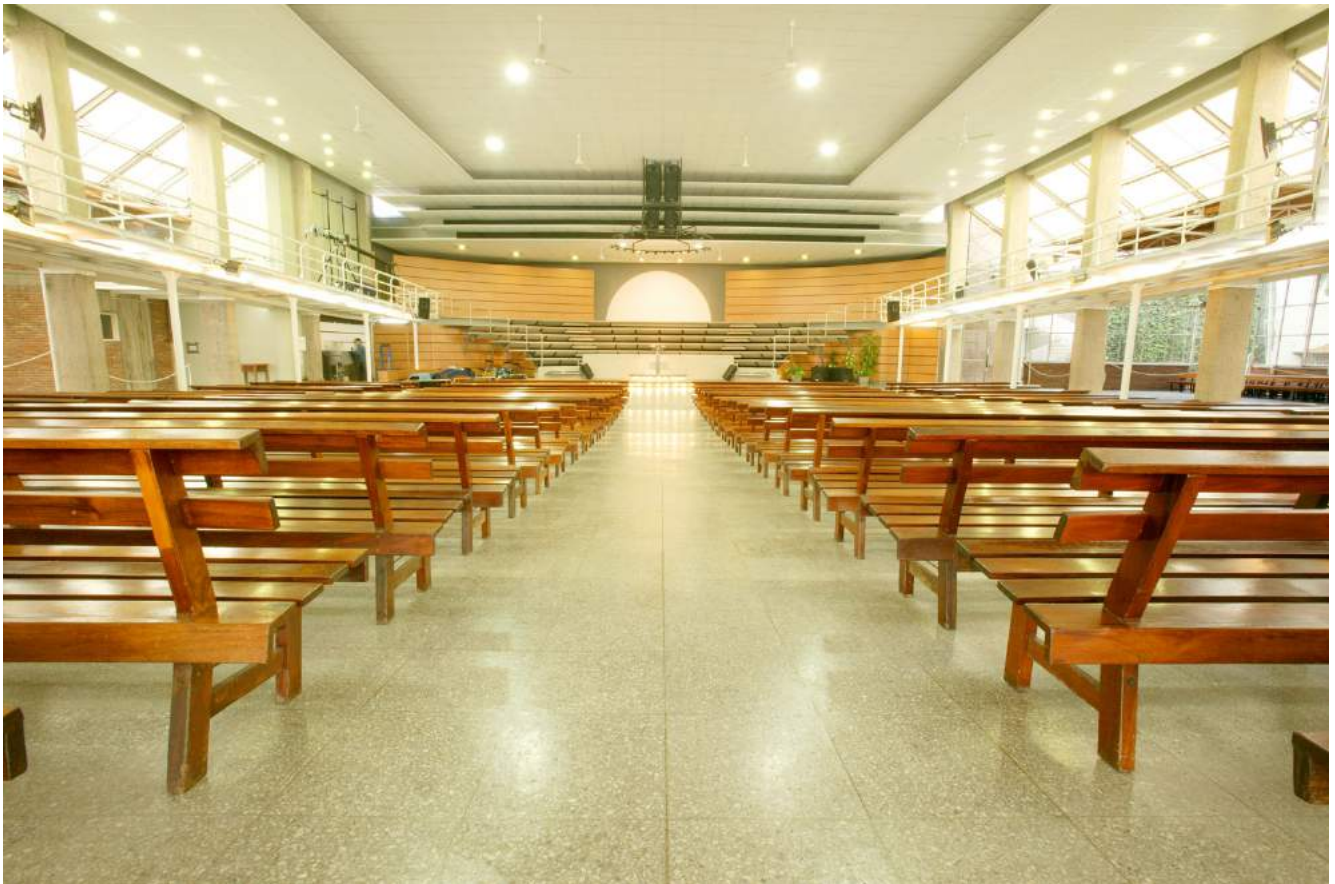
"Los Olivos" church called us to improve the acoustic and electro-acoustic performance of an existing space.

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

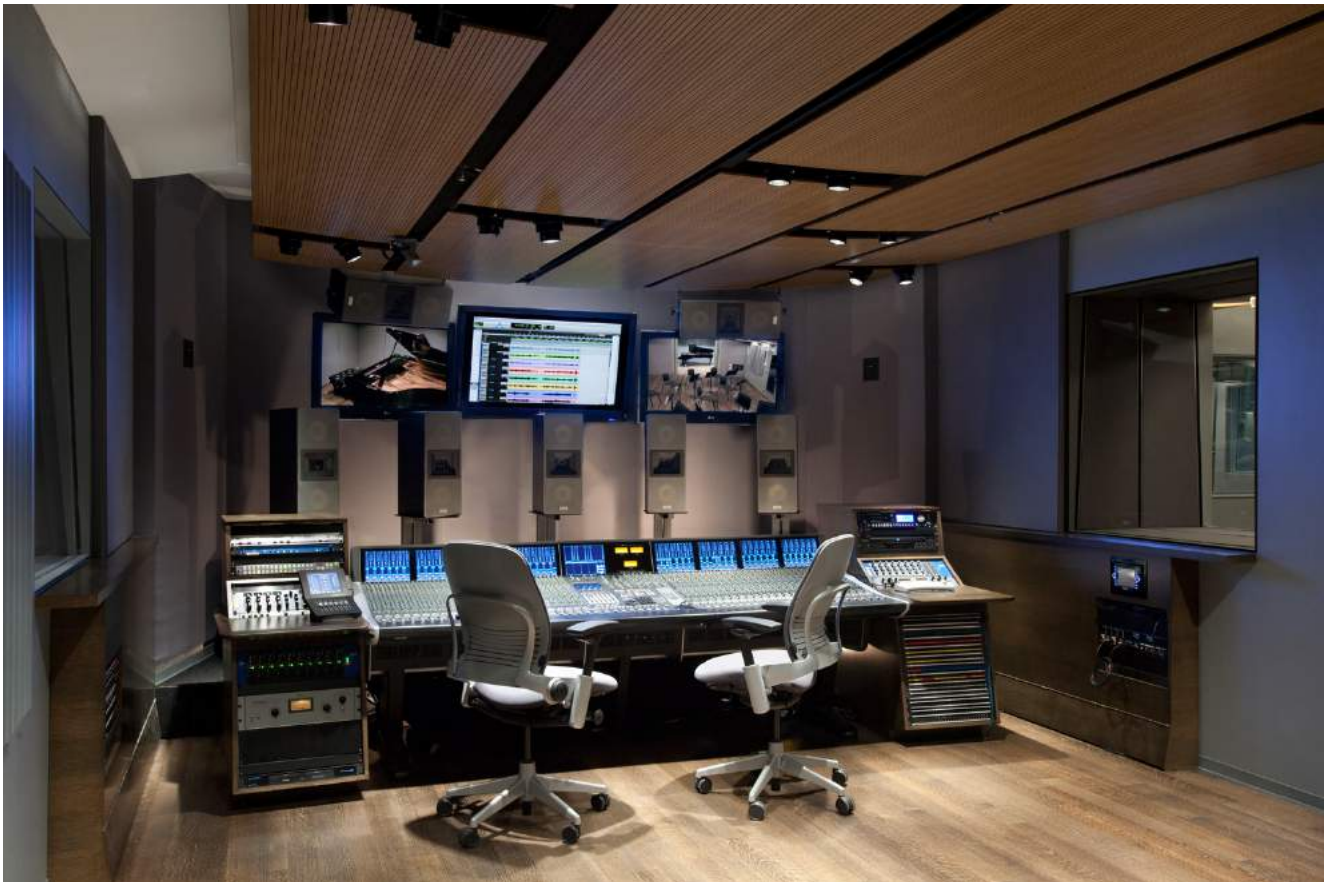


New York University - Steinhardt - New York, USA

NYU's Steinhardt School of Culture, Education and Human Development's James L. Dolan Recording/Teaching complex at the Department of Music and Performing Arts Professions is one of the most technically advanced audio teaching facilities in the United States. It was created to provide students with an exemplary learning environment. The \$6.8 million, 7500 sq. ft. compound is devoted to contemporary Music Technology: Theory, Cognition, Informatics, Computer Music, Recording, Production, and Immersive Audio.

Describing their architectural program, Gensler principal and design director Keith Rosen comments, "The view into the Control Room through the Reception Area rear wall immediately establishes Steinhardt as an advanced teaching facility. The challenge was to fit an extremely dense program into a relatively tight space. To maximize the flexibility of the larger multi-functional spaces, such as the conference/performance room and study/pantry areas, we developed various private and shared spaces along a single circulation loop. Glass interior walls and doors provide Students and Faculty with natural light, a great asset in a facility with interior studios. Raised floor construction will ease changes in program and technology. The existing steel trusses slicing through the space were embraced as organizing elements for the Control Room and other critical sound isolation areas. The punched windows provide visitors with views into the recording studios. The design constraints we encountered have been turned into powerful aesthetic and way-finding elements," Rosen concludes.

The complex is distinguished by a 25-seat control/class room which features a fully automated 48-channel SSL console and the first Dangerous Music 10.2 surround installation in NYC. In addition to a live room large enough to accommodate a small orchestra; the floor includes several research laboratories, offices, a conference/seminar room and a large iso/drum booth. Multiple windows and a full line of sight provide natural light throughout.



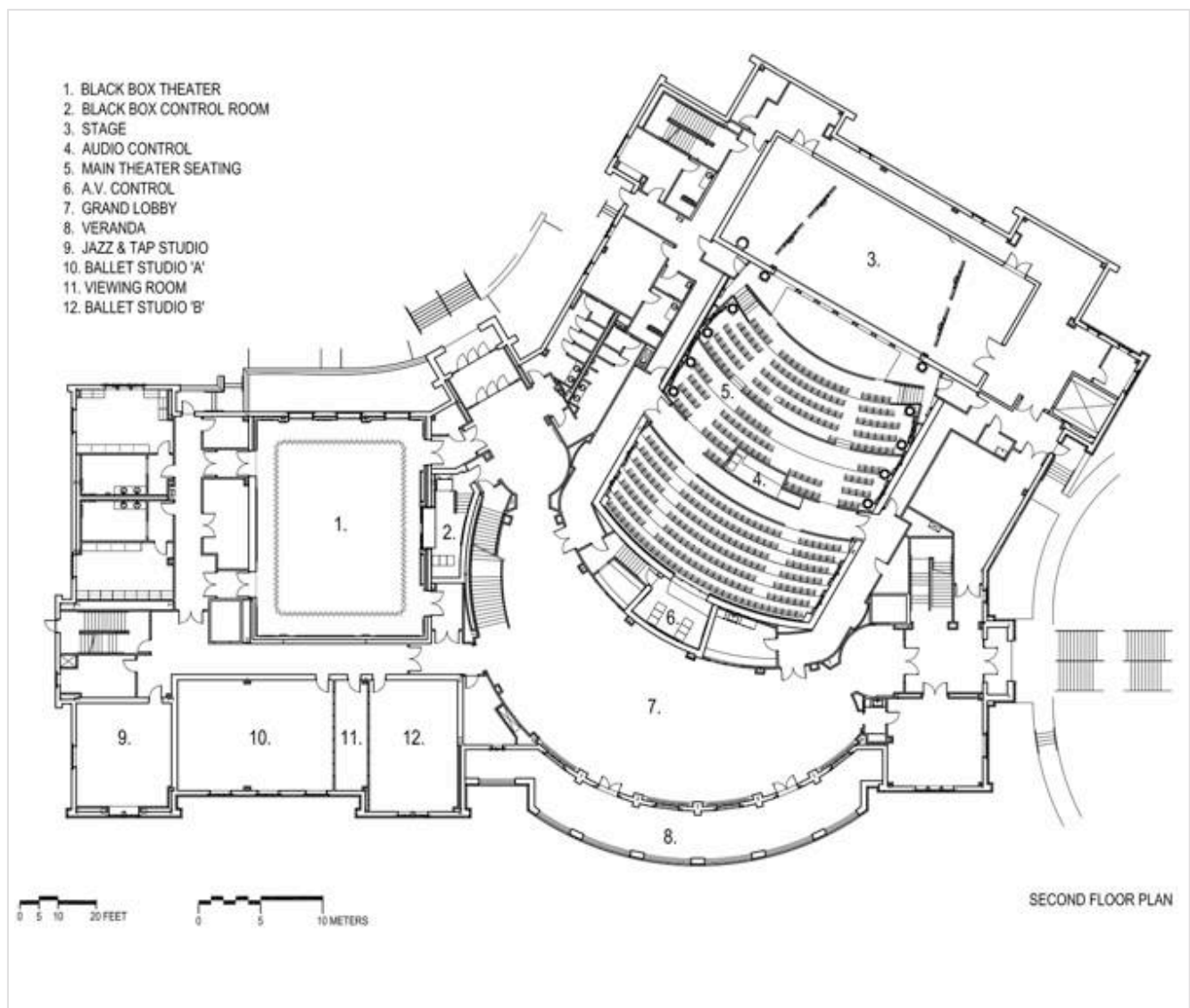
New York University - Steinhardt - New York, USA



Murray Arts Center - Marietta, USA

The Murray Arts Center represents a unique addition to Atlanta's growing commitment to education and live entertainment. Recently purchased by the Mount Paran School with the aid of a generous grant from Atlanta's Murray Family Foundation, the \$35 million complex features a 600-seat music hall, an intimate 2,200-square-foot black-box theater, three dance studios, a cutting-edge recording studio and a sophisticated video production/post-production facility. Each of the Center's components are designed to support the development of the Mount Paran School's performing arts program. The Center has a dual role as a multi-faceted campus preparing students for post-secondary degrees in dance, theater, music, choral and digital media and as a professional-level performance venue.

Crowning a pastoral Marietta hilltop, the striking 84,000-square-foot brick and limestone, multi-level building was developed by award-winning Atlanta-based Randall-Paulson Architects. Distinguished by a soaring 5,600-square-foot 'Grand Lobby' the complex includes over 8,000 square feet of rehearsal space, dressing and green rooms. The architectural and acoustic design for the Center's theatrical performance spaces, state-of-the-art rehearsal rooms and high-tech audio/video facilities was entrusted to WSDG.



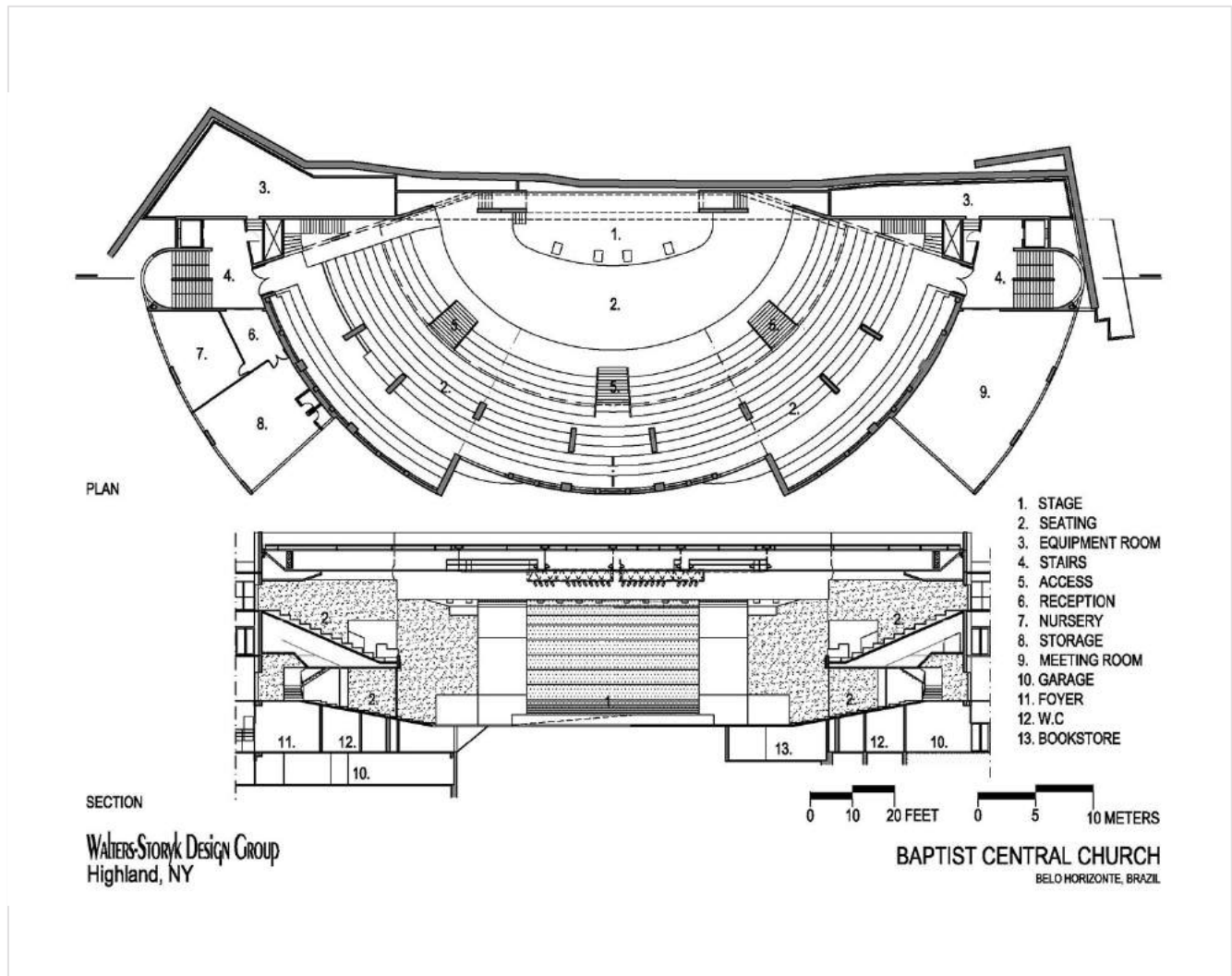
Murray Arts Center - Marietta, USA



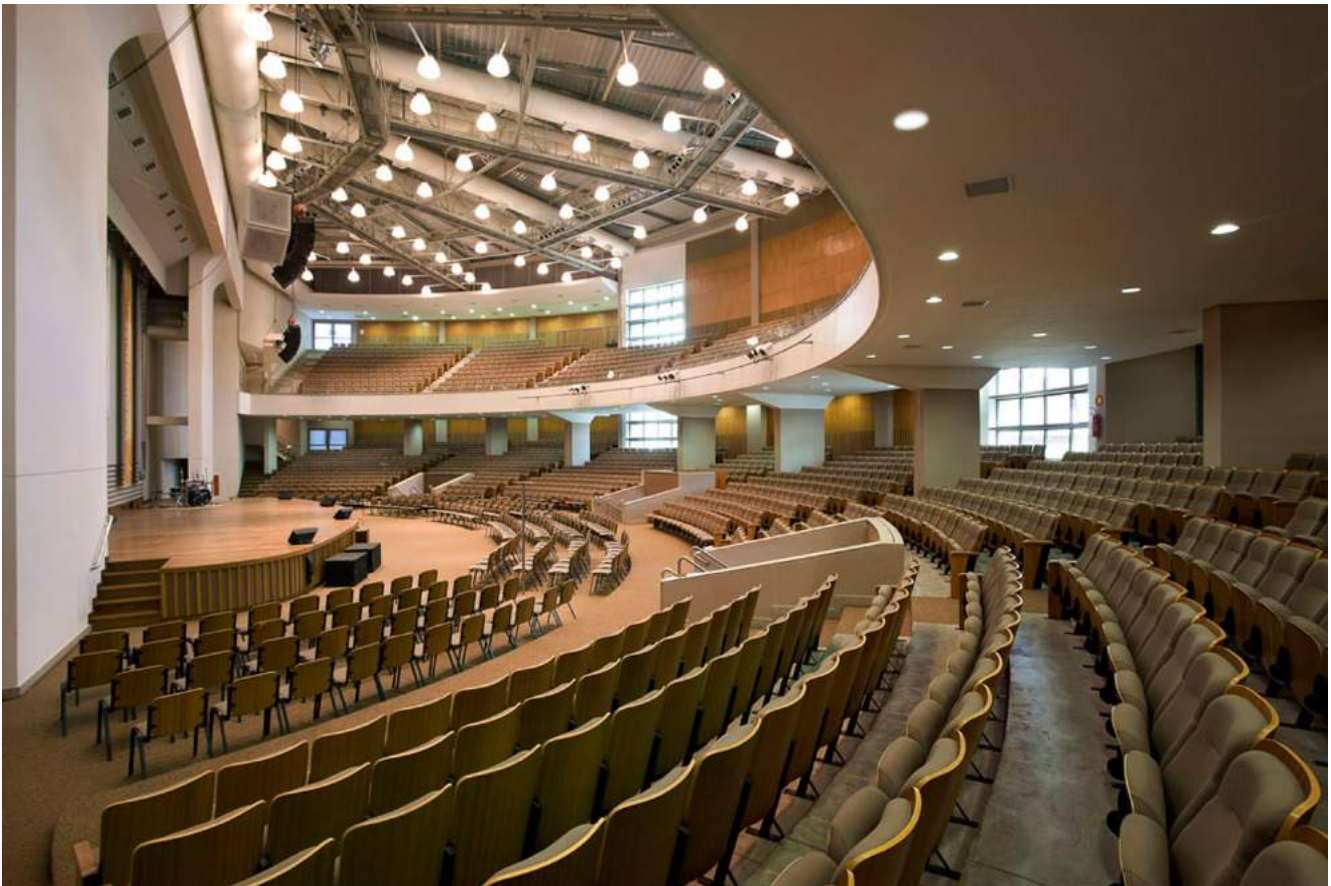
Igreja Batista Central - IBC - Belo Horizonte, Brazil

Food Network has been creating tastefully prepared, highly entertaining programming since 1993. Originally owned by Providence Journal, and then A.H. Belo Corp, the innovative network was acquired by The E.W. Scripps Company (now Scripps Networks Interactive) in 1997. After establishing such household icons as Emeril Live and Iron Chef America, it has gone on to create such signature programs as Alton Brown's GoBod Eats and Rachael Ray's Thirty-Minute Meals. Food Network currently serves its appetizing 24/7 menu of recorded programming to over 99 million households around the world.

While 5.1 was on the agenda at the outset of the expansion program, audio remained a stereo format throughout the migration to an HD video system. "Our intention was to move to 5.1 when demand reached critical mass," Jarett explains. "The initial game plan for Ninth Avenue was to shoot primarily in SD mode using Grass Valley components including signal routing, cameras and a video switcher, while recording on IMX video recorders and posting in Avid NLE rooms. We shifted to more HD production with each passing year and eventually moved to recording HD iso camera feeds on HD CAM video recorders and posting in our HD NLE rooms via an Avid ISIS storage system. The process worked until 2008 when we rebuilt the Audio, Flex and Production Control Rooms and became fully HD compliant in our studio operation," he adds.



Igreja Batista Central - IBC - Belo Horizonte, Brazil



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 square foot 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 feet 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. General acoustical 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

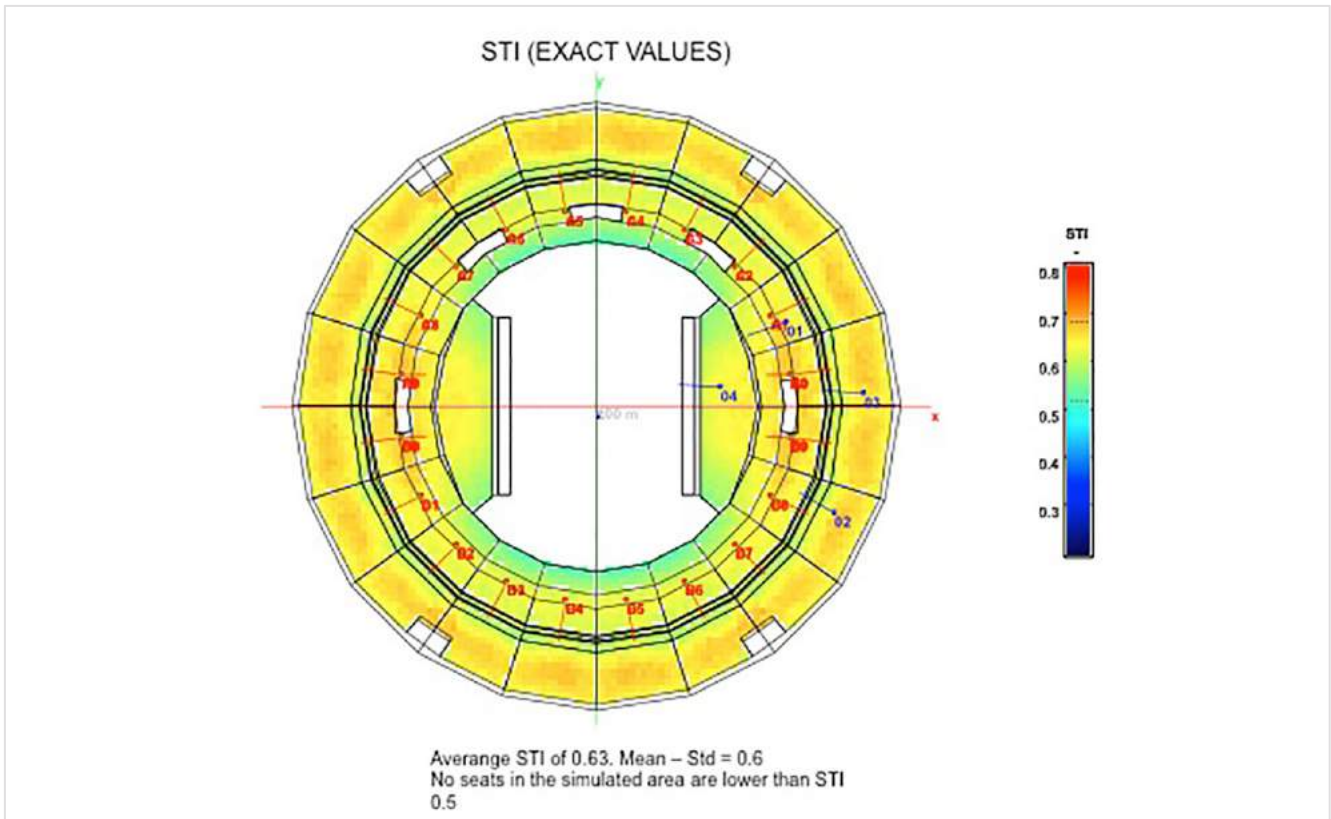
Barra Olympic Park is being developed as Rio's primary 2016 Olympic and Paralympic Games competition centre. It will also serve as the city's largest sporting legacy when the competitions end. With an area of 1.18 million square meters, Olympic Park will include nine sports venues. The Olympic Arena 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 boccia), 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, has already begun. Construction of the remaining venues will commence in 2015.

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 electroacoustic 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 will include a research lab for nutrition, physiotherapy, sports and clinical medicine.



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



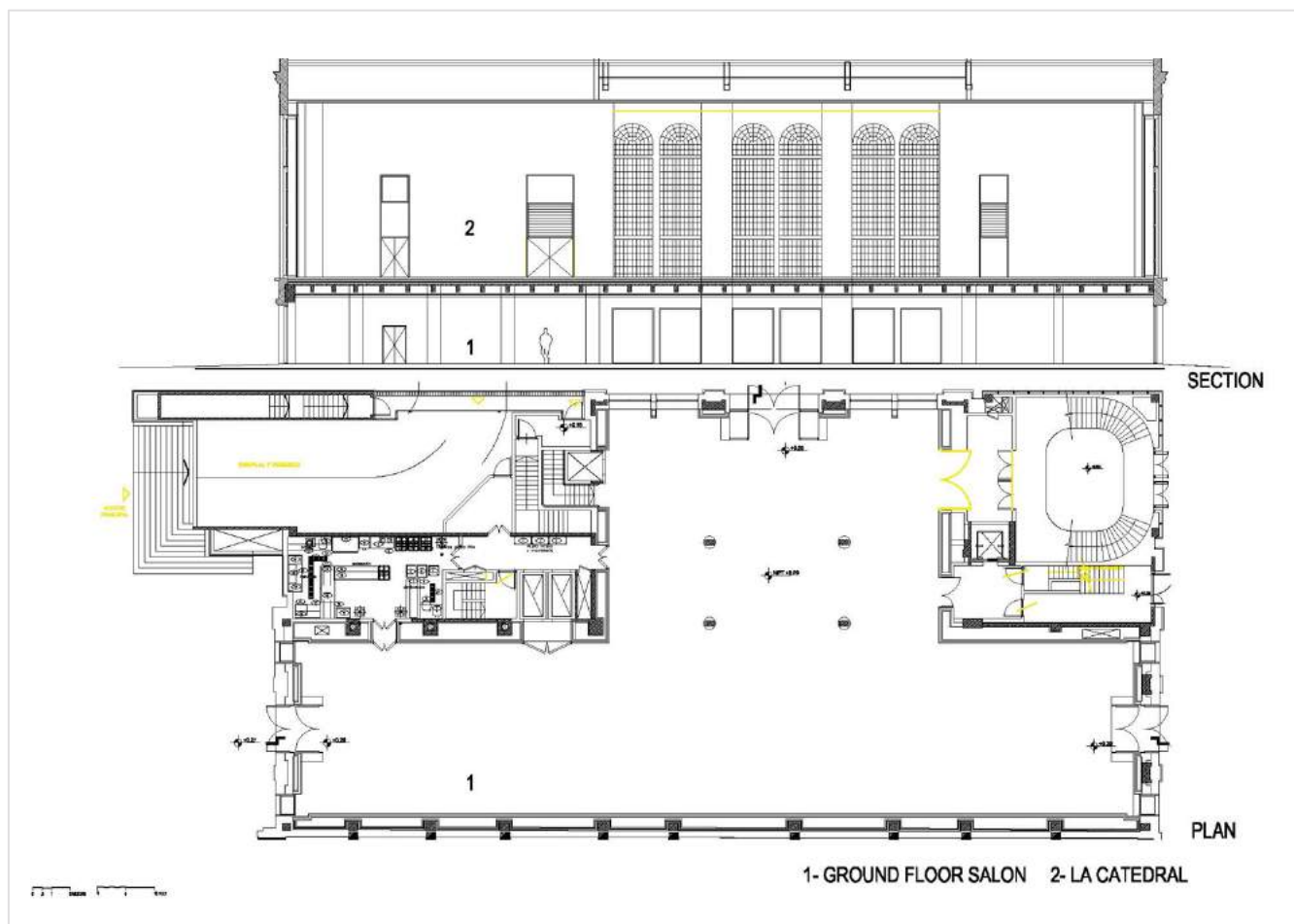
Los Molinos - Faena Arts Center - Buenos Aires, Argentina

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



Morro do Chapeu 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.



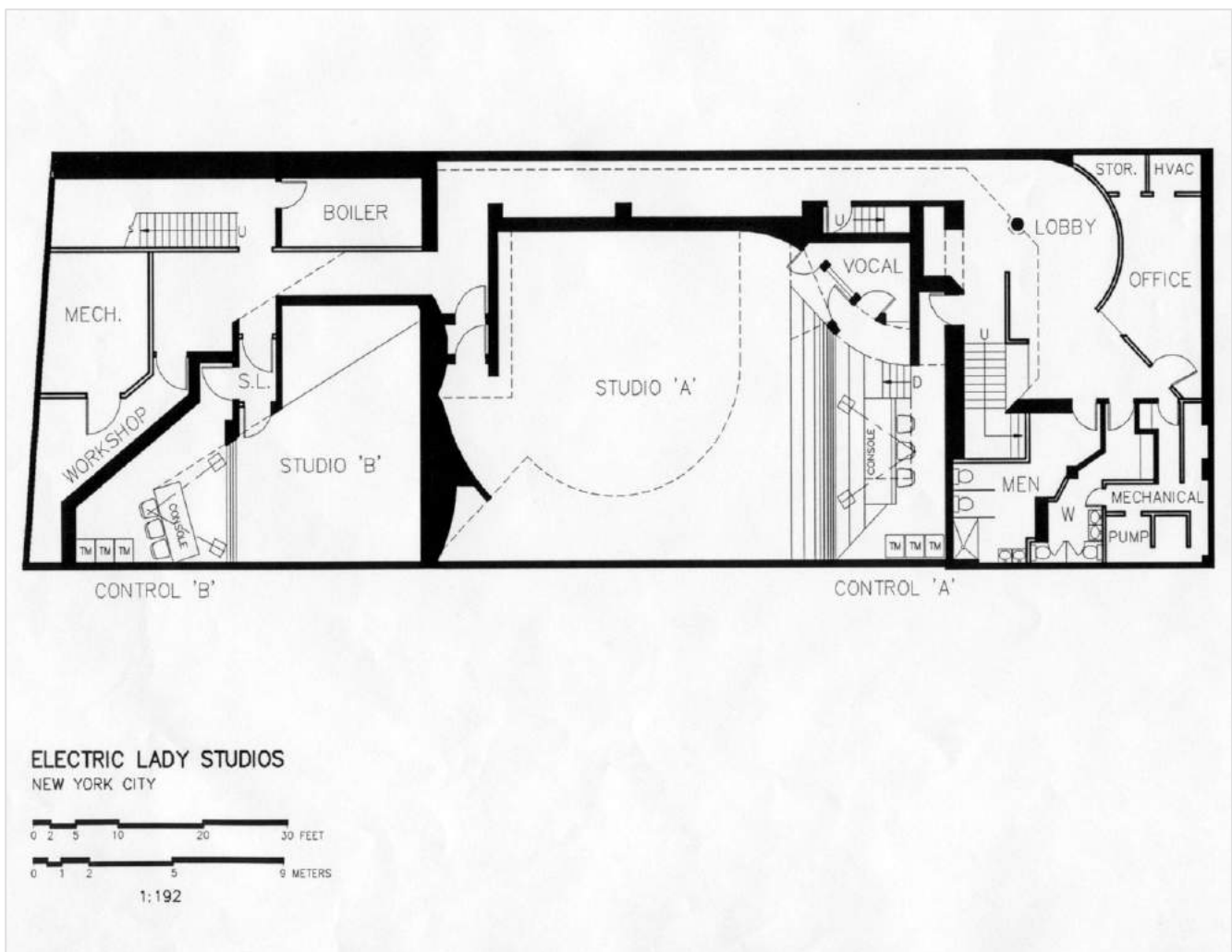
Morro do Chapéu Residence - Belo Horizonte, Brazil



Electric Lady Studios - New York, USA

At age 45 and counting, 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.

Kramer 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 studio's 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, USA



Professional References

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Pastor Joseph Cortese

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Ann Mincieli, Founder, Jungle City Studios and Chief Engineer, Alicia Keys' Oven Studios

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Kyle Wesloh, Studio Manager

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Shaun Farley, Sound Engineer

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Representative Client List

Alicia Keys (Oven Studios), Long Island, NY
Allaire Studios, Woodstock, NY
Art Institutes United States
Atlantic Recording New York, NY
audioEngine New York, NY
Bearsville Recording Bearsville, NY
Berklee College of Music Boston, MA
Berklee College of Music - Valencia Valencia, Spain
Big Mo Mobile Recording Kensington, MD
Bob Marley Kingston, Jamaica
Bruce Springsteen (Thrill Hill Studios) United States
Camden Yard / Baltimore Orioles Baltimore, MD
Carter Burwell New York, NY
Celine Dion United States
Central Synagogue New York, NY
Church Le Noirmont Le Noirmont, Jura, Switzerland
Citicorp Credit Services Huntington, NY
Credit Suisse Zurich, Switzerland
Crossroads Tabernacle - Studio on the Hill Bronx, NY
Cuyahoga Community College - Center for Innovation in the Arts Cleveland, OH
Diante do Trono Belo Horizonte, Brazil
Duke Ellington High School Washington, DC
Eddie Kramer Rhinebeck, NY
EFE-X Bogota, Columbia
El Porteño Buenos Aires, Argentina
Electric Lady Studios New York, NY
Electronic Arts Vancouver, Canada
Elektra Entertainment New York, NY
Equiscosa Mexico City, Mexico
EUE Screen Gems (Rachel Ray) New York, NY
ESPN Bristol, CT
Fito Paez (Circo Beat Studios) Buenos Aires, Argentina
Flughafenkopf –Zurich Airport Zurich, Switzerland
Food Network New York, NY
Full Sail Center for the Recording Arts Orlando, FL
Goesgen Nuclear Plant Däniken, Switzerland
Green Day – Jingtowntown Recording Oakland, California
Hard Rock Cafe New York, NY
Hoffman LaRoche Basel, Switzerland
Howard Schwartz Recording New York, NY
Hunter College New York, NY
IMAX Buenos Aires, Argentina
IDZI Lab Mexico City, Mexico
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
La Rioja Theater La Rioja, Argentina
Le Poisson Rouge New York, NY
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
MJI 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
Philippe Moritz Zurich, Switzerland
Planet Hollywood Screening Room New York, NY
Proctor and Gamble Buenos Aires, Argentina
Record Plant Los Angeles, CA
Restaurant T Buenos Aires, Argentina
Richard Gere New York, NY

Robert Clivilles (Paradise Garage) Westchester, NY
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
The Carpenters Church Port Harcourt, Nigeria

The Cosmopolitan Las Vegas, Nevada
The Standard Hotel New York, NY
Thirteen / WNET New York, NY
Union College Schenectady, NY
University of Colorado – ATLAS Boulder, CO
University of Michigan Ann Arbor, MI
Vassar Chapel Poughkeepsie, NY
Video Arts Studios Fargo, ND
Village Studios Guangzhou, China
Vocomotion Skokie, IL
Whitney Houston United States
WNYC Radio New York, NY
Woodrow Wilson Center– Smithsonian Washington, DC

Key Personnel



John Storyk, R.A.

Founder Partner / Director of Design

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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 principal of WSDG, he has been responsible for over 3,000 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) and Stevens Institute (New Jersey).



Beth Walters

Founder Partner / Interiors

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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.



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.



Ian D. Bromilow

Director of Acoustics

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Ian graduated with a Bachelor of Engineering with Honors in Electroacoustics from the University of Salford, UK in 1992. He is a member of the Institute of Acoustics in the UK and AES. Before moving to New York, he featured as a key player in the acoustical design of buildings in the UK and Europe for over 20 years. Since arriving in the US he has worked with high-profile clients on premier projects to achieve the ultimate acoustical user experience. He is the advocate for a better-sounding world and is a thought leader for innovative acoustical design solutions. Ian enjoys doing what others think cannot be done; his efficacy in the application of detailed constructional techniques and emerging technologies is his specialty whilst ensuring solutions remain visually respectful of the architectural agenda.



Silvia Campos Ulloa Molho

Partner / Art Director

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Silvia Campos Molho has been involved in the video industry since 1987 as an independent filmmaker in Lima. Her degree in Fine Arts comes from the University of Peru in Lima and has continued with a degree in Anthropology from the University of Buenos Aires. As a producer, Silvia has developed several cinematographic projects, documentaries, commercials and corporate marketing worldwide. Her areas of expertise include the development of corporate images with the wide use of digital technological combined with traditional film and video. In 1998, together with AVH Inc. in Argentina, she was responsible for the making of the first DVD format in South America. She is an integral part of the design, communication and marketing divisions for WSDG, while acting as co-founder and partner of WSDG-Latin.



Victor Cañellas (Weike)

Representative

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Víctor Cañellas (Weike) - Acousmatic Sinologist 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.



Renato Cipriano

Partner / Director of Design

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Renato Cipriano graduated as a Civil Engineer from the University of FUMEC in Belo Horizonte, Brazil in 1994 and is also a graduate from both The Recording Workshop, Ohio (1992) and Full Sail Center for the Recording Arts, Orlando, USA (1999—also one of John's students). In early 2000, Renato opened the WSDG Brazil office in Belo Horizonte, Brazil and is responsible for the acoustical and architectural supervision on all projects in Brazil. Additionally, Renato has led the design efforts of many of our international projects contributing to creative acoustic interiors and integrated lighting design as well as setup and calibration of audio systems. As an audio engineer, he has worked on various projects including the most recent album of the most popular rock band in Brazil – Skank. Renato also teaches acoustics in the top audio school in the country, IAV in São Paulo. In 2004 Renato received two Grammy nominations and won the Latin Grammy for "Best Brazilian Rock Album".



Nancy Flannery

Partner / Chief Financial Officer

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The first and last person to call with any production, billing or scheduling issue, CFO Nancy Flannery has spent the past twenty-five years honing her skills as the consummate WSDG client liaison. A multi-task whiz, Nancy assists clients in virtually every phase of their projects. From negotiating favorable contracts with suppliers to procuring special materials, or resolving complex issues in a timely manner, she is the ultimate client advocate and problem solver. In Nancy's dictionary the definition of CFO is "headache relief."



Gabriel Hauser

Partner / Director of Acoustics

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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.



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.



Alan Machado

Project Manager

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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 Brasil 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.



Aditya Modi

Representative

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Born in a recording studio in a quaint studio apartment in Chennai, Aditya has flair and passion for anything audio. After school, he used to sit in on recordings conducted by his father, Vijay Modi, for artists such as AR Rahman. Graduating Full Sail University with a Recording Arts Degree, Aditya moved to LA as a practicing DJ. India calling, Aditya moved to Mumbai where he assisted Sound Engineering legend Daman Sood as well as Avinash Oak, Jagjit Singh, Lata Mangeshkar, Asha Bhosale, Pandit Jasraj, Pankaj Udhas, Naushaad Ali, Abida Parveen and almost every great in the Indian music industry. He has designed for over 250 facilities across India. Aditya formed Modi Digital to offer premium recording studio design and undertake complete audio install projects, pro audio equipment distribution, technical designing, acoustic designing and after sales support to the audio industry.



Sergio Molho

Partner / Director of International Development

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Sergio Molho is a founding partner of WSDG Latin America. He provides the technical, acoustical and architectural supervision as well as project management for all WSDG Latin America projects. Sergio has worked in the audio and video industry since 1982, beginning as an engineer, composer and producer for international productions for recording labels such as Sony and Warner. As an accomplished keyboard player and vocalist, he was the leader of CASH, a successful funk band that had its fame in Argentina in the 1980's. He is a member of the Argentinean Acoustic Chamber (AAC) and Audio Engineering Society (AES) as well as other professional organizations. He is a frequent contributor to technical workshops expanding the knowledge and education of acoustics and electro-acoustics in their relationship to architecture. In 2005, Sergio became the CEO and principal of WSDG Latin America. In 2007 he opened the WSDG Mexico Office, and in 2009 the WSDG Miami office. As the Director of WSDG's International Relations, he contributes to the promotion and acquisition of new business relations worldwide.



Joshua Morris

Partner / Director of Design

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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 and now partner. Since then 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.



Kevin Peterson

Project Engineer

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Kevin has always been a music lover and musician. While in high school, he performed in several bands, and developed a 'gear head' aptitude for setting up recording equipment, microphones, and speakers. That early experience inspired him to study audio in college. After graduating as Class Valedictorian from Full Sail University with a B.S. in Show Production, Kevin's interest in audio and acoustic measurement lead him to a career with WSDG. He welcomes the opportunity to collaborate with WSDG's international team and enjoys hands-on involvement with unique, creative projects. An avid year-round camper / outdoorsman / and Eagle Scout, Kevin claims to enjoy the cold and snow of the Hudson Valley winters much more than his co-workers.



Federico Petrone

Senior Systems Designer

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Federico obtained a Contemporary Music Degree and an Audiovisual Communications Degree in Argentina. He started his career as the music director for Indie Musical Theater groups and the FOH sound engineer for a major theater in Buenos Aires. Federico then went on to get a lead audio position at Disney Cruise Lines, in charge of all audio systems and responsible for the FOH operation in the main theater of one of their cruise ships. In 2007 he joined WSDG in Latin America in his current position as Audiovisual Systems Designer and Chief Installer. He has worked on numerous projects worldwide integrating sound, video, lighting and automation for different applications, from small project studios to large live venues. He also leads the systems install team for all types of audiovisual installations. Federico is an accomplished video game music composer having worked in more than 100 titles for different game platforms.



Frank Reder

Senior Associate

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Frank is a musician and a designer in an acoustician's body. He received his education at the University of Hartford where he studied acoustical engineering and music, with a concentration in jazz guitar. Since then, he has been working on notable projects both in NYC and internationally, where his focus is on creating spaces which sound beautiful while being flexible and functional. Acoustics has long been thought of as a black art but Frank sees himself as a communicator who translates acoustic concepts to real experiences so designers can confidently bring their design to life. His passion lies in working with other experts on interesting projects which don't have obvious solutions. Never satisfied with previous work, Frank always wants to design it 'better than last time.' He loves sitting at the table with passionate designers, working through sketching, to create the best possible spaces.



Bob Skye

Project Engineer

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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 rep and project engineer, Skye will shoulder 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.



Andrew Swerdlow

Acoustic Engineer

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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 electroacoustics, architectural acoustics, and acoustic prediction, measurement and modeling. In 2015, he joined WSDG as an intern. Three months later he was an acoustic engineer, applying his modeling and measurement skills, making recommendations for a variety of acoustic projects, and tuning audio systems.



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 Arq&AS., 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 months 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.



Javier Vyero Villaroel

Representative

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Born in Santiago, Chile, “Vyero” is a successful record producer and songwriter. After graduating from Universidad Mayor, (Chile) with a degree in Social Communications and Advertising and a specialization in A/V media, Vyero moved to Mexico in 2001 to kick off his music career. Signed to Universal Music Mexico in 2004, he recorded a compilation album entitled “Autores del Nuevo Milenio”. Vyero’s subsequent album releases include: “Llevame” (2007), “Electro” (2012), and “Cover Sessions” (2013). He is currently preparing a new EP of original compositions entitled “Acustico”, for release in late 2015. He has also served as a producer for a number of film and album recording sessions by various artists. In 2015 Vyero joined [Audio Gate International](#), a leading Mexico City-based equipment sales and consulting firm. Javier Villarroel has now been named exclusive WSDG representative in Mexico, and will focus his energies on developing client projects in the high-end recording, video production, performance venue, corporate and educational sectors.



Su Weillie

Representative

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Su Weillie – Architect/Interior Designer/Representative is a Guangzhou native who studied Construction Engineering at Hunan Institute of Technology and Architecture, and City Planning at Wuhan University of Technology. In 1990, he joined the Panyu Bridge Group Company and participated in the design of Nansha Port and Nansha Tian Hou Temple restoration project. In 1994, he founded Guangzhou Red Leaves Decoration Project Co. Ltd., and participated in assignments for the Guangzhou Olympic Garden. In 2004 he moved to the Conghua Mountains for self-cultivation and a contemplative education, and to research Agrarianism and the ancient practice of Daoism. Returning to Guangzhou, he participated in the Guangzhou Natural Park development as well construction projects focused on Luxury Hotels, Office Buildings and Refurbishing Historical Buildings.







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