The View from Inside
Challenging Whitewash
The Place of Interior Design
Designing Theatres
Niles Alleys
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Contributors

John Leighton Chase, Assoc. AIA, is the Urban Designer for the City of West Hollywood and a member of the arcCA editorial board. He is co-editor with Margaret Crawford and John Kaliski of Everyday Urbanism, newly revised and updated in 2008, for Monacelli Press. He may be reached at jchase@weho.org.

Annie Chu, AIA, is a principal of Chu+Gooding Architects in Los Angeles, focusing on projects for arts-related and education clients. Notable projects include the “Masters of American Comics” exhibit at MoCA and Hammer Museum and “Architecture of R.M. Schindler exhibit at MoCA,” renovation and addition to the 1950 Harwell Hamilton Harris masterpiece English House and the Kentucky Museum of Art and Craft. She is a member of the arcCA editorial board and the AIA Interior Architecture Advisor Group and may be reached at annie@cg-arch.com.

Maria McVarish is an architect, artist and visual researcher practicing in San Francisco. She has lectured in architecture at UC Berkeley’s College of Environmental Design and, since 1996, teaches interdisciplinary studies, critical theory, and design at the California College of the Arts. She may be reached at mmcvarish@cca.edu.

David Meckel, FAIA, is Director of Research & Planning for the California College of the Arts (CCA) in San Francisco. He may be reached at dmeckel@cca.edu.

John Parman writes for LINE (www.linemag.org) and The Architect’s Newspaper. He can be reached at jjparman@aol.com.

The founder of Colour Studio, Jill Pilaroscia consults for diverse global companies and is a fully accredited member of the International Association of Color Consultants. She continues to research the psychological, biological, and visual ergonomic factors of color. Her thesis, Color in the Manufacturing Environment, analyzed the impact of color in both carpet and furniture manufacturing facilities.

After fifteen years with other leading theatre consultants, Adam Shalleck, AIA, founded The Shalleck Collaborative in San Francisco in 2003. Their work can be seen at www.shalleck.com, and he may be reached at adam@shalleck.com.

Paul Welschmeyer, AIA, is an East Bay native whose professional experience began with The Ratcliff Architects in Berkeley and continued with Studios Architecture in San Francisco. His private practice began in 1991 and maintains core expertise in adaptive reuse and historic projects, architectural interiors, and residential works, all of which include a focus in green build practices. His recent book, Niles is HERE not there, chronicles a community’s redevelopment efforts, dating back to 1956 (Blurb.com). Paul is a Niles resident and active community leader and was a member of Fremont’s Historic Architectural Review Board from 1991 to 1998. He may be reached at studio@pwarchitects.biz.

Jimmy Stamp is a freelance writer and designer with Mark Horton / Architecture in San Francisco. He has been publishing his architecture blog, Life Without Buildings [lifewithoutbuildings.net], since 2004 and is a contributing editor at Curbed San Francisco [sf.curbed.com]. He may be reached at jimmy@lifewithoutbuildings.net.
When he accepted the Pritzker Architecture Prize in 1984, Richard Meier said, “White is my favorite color. White conventionally has always been seen as a symbol of perfection, of purity and clarity.” Meier’s preference is hardly an uncommon one among architects since the dawn of modernism, but it overlooks the powerful role that color can play in architecture.

Once, almost all buildings were constructed of materials that had inherent color, and the resulting palette—the terra cotta of bricks, the cream of limestone, the greens of the landscape, the blues of sky and water—was a natural part of the architect’s understanding. Today, designers have more options: they can leave materials in their natural state or apply paint or stain as a descriptive element to enrich structures with greater significance.

Color has the ability to trigger responses, memories, and reactions, both conscious and subconscious, and they differ from person to person. Individual subjective color preferences are based on memories. A positive experience in a blue room as a child can lead to a lifelong preference for blue. The idea of a perfect hue that always works, or of a formula of color relationships that is foolproof, is a fallacy. Perhaps this is why architects so often overlook color.

Nevertheless, despite the subjective aspects of color perception, skilled colorists around the world have developed sophisticated approaches to choosing the right hues. Some consider light the most influential factor; some cite geographic location, culture, or climate; some favor historic and archeological criteria; some work with styles and trends; and some rely on scientific studies.

Although any of these perspectives can yield a successful color solution on its own, the first person to rigorously synthesize a variety of approaches to color was Frank Mahnke, president of the International Association of Colour Consultants/Designers. In his 1996 book, Color, Environment and Human Response: The Beneficial Use of Color in the Architectural Environment, Mahnke defined an objective process for applying color in an individual environment. His approach includes six psychodynamic criteria: biological responses to color, the influence of fashion styles and
trends, cultural and geographic considerations, associations and conscious symbolism, the collective unconscious (which stores our innate responses to color), and subjective personal color biases.

In addition to Mahnke’s work, color theorist Johannes Itten identified seven color contrasts critical to color application. He defined how to enhance edges where colors meet, how to apply colors to vault space, and how to create tonic and vigorous or serene and sublime color contrasts.

And science demonstrates how color can influence our senses of time, temperature, taste, smell, weight, and distance.

Each project is unique, and no project will have the same program and criteria for color selections. Yet the cross-disciplinary method offers great flexibility in a variety of situations.

Restoration and Theory

In historic restoration and rehabilitation projects, photographs of the original color scheme often exist and can be used to guide color selection. In some cases, however, little record of the original colors exists. After the 1904 stained glass dome of the San Mateo County Courthouse was meticulously removed for restoration, officials noted that the recently completed, seven-year restoration of the California State Capitol dome in Sacramento had applied a polychromatic color scheme. The county wanted a noteworthy landmark, as well, and investigated a similar approach.

The colors in the interiors had not been documented before the dome was removed, and the temporary, bright blue tarp installed three stories above the ground floor—to shield courthouse occupants from falling glass—tinted the light in the space, making it even more difficult to visualize appropriate color choices. The interior walls had been maintained using two cream colors for years. The city lacked a budget for forensic paint analysis.

A cross-disciplinary approach was the only course, drawing on research into historic pigments available to the West Coast market in the early 1900s and combining those findings with color science theory and a focus on visual ergonomics. In order to match a red found in the building’s stained glass, a primary red was used to visually mix with yellow light to create a red orange. To vault the dome, a highly chromatic blue was required to prevent it from mixing with the yellow light and turning green. The colors increase in brightness and intensity as they rise from the first floor up to the center of the 60-foot dome, a technique that fools the eye into thinking they are all of equal brilliance. The success of the project helped support the civic significance of the building, and the project received numerous restoration awards.

Brand, Identity, and Color Response

Color is a powerful component of branding efforts for many companies—which can sometimes complicate matters when it comes to designing a corporate office. The key is to apply the brand color judiciously, so that it stands out without dominating a space and supports the needs of workers and visitors. When San Francisco gift company Red Envelope decided to expand in order to house its growing staff, it was clear that red would have to be an integral part of the architectural program. Red carries positive associations: it is primal, powerful, and dynamic. Yet it can also suggest blood, rage, fire, and death.

The initial color design used red everywhere, buffered by bright white. Environmental studies and research have shown, however, that one unrelieved color will become boring and monotonous, whether it is red, beige, or white. Furthermore, designing environments for multiple users who perform different tasks requires a balanced palette. Members of the creative team need different stimuli in their space than the CEO and CFO do, and those in the customer service center in particular need to remain calm and relaxed. No single hue could work for everyone. The color palette ultimately consisted of a well-balanced palette of hot and cool hues tailored to meet basic human needs.
Wayfinding and Focusing Attention

Color can also play an important role in helping people orient themselves in a space. As part of a renovation and expansion project, Monterey Bay Aquarium sought color consultation on the new entry and ticketing lobby. The scope expanded to include the graphics, display, and retail components adjacent to the renovation. The goal was to link disparate elements of the museum experience with a comprehensive color plan.

To enter the aquarium, visitors waited in lines stretching down the block. The dominant visual fields were white stucco walls. The application of color accentuated the entry point.

A new exhibit of Monterey Bay history consisting of photographs and canning machinery was being added. Large brick ovens sat between the entry point and the new history display wall. A highly chromatic yellow green was selected to complement the color of the brick ovens and call attention to the exhibit walls.

To create a sense of identity and welcoming, blue was chosen for its power to suggest reliability and stability. Visual cues such as differences in hue and color values attract attention to a formerly unused area of museum converted into a display zone. Around the corner, a red wall dramatically wraps around the façade and into the gift store in order to encourage visitors to explore the retail shop.

Recasting Healthcare as Hospitality

When skillfully crafted, color can suggest mood and create ambiance. Palomar Pomerado Health in Poway, California, asked Anshen+Allen to design an outpatient facility that felt spa-like rather than institutional. The facility offers exams, consultations, and lab work services to adult women. The color palette was developed to mimic the regional Southern California landscape, using bright colors judiciously. The team presented the color ideas objectively, describing how color psychology had guided the selection of a palette of sage, coral, light blue, and neutrals, which, combined with natural materials, would meet the overall project goals and create a relaxing atmosphere.

Enhancing the Transportation Experience

Color can also help make environments such as public transit feel more comfortable and peaceful. As part of a project to renovate 423 subway cars for the Montreal Transportation Society, architect Bernard Pepin of Atmosphere Design in Montreal, Canada, delivered a 71-page report on color and experience. He considered factors such as perceptions of security, cleanliness, reduction of aggressive behaviors, vandalism, graffiti, motion sickness, noise, lighting, and heat. His goal was to apply color in ways that would stimulate a positive mood and compensate for poor environmental conditions.

The chief engineer for the subway project has stated that, since Pepin completed the first-class train for VIA RAIL on the Montreal-Toronto line, vandalism and graffiti have been reduced 40% and ridership has increased significantly.

In all of these cases, objective principles, drawing on art and science, informed the application of color. Not every environment needs to be polychromatic or dramatically colored. Yet color is far more than just a decorating tool. Used well, it can be an integral part of architecture, bringing life to large spaces, supporting the needs of workers, and helping people navigate complex environments.