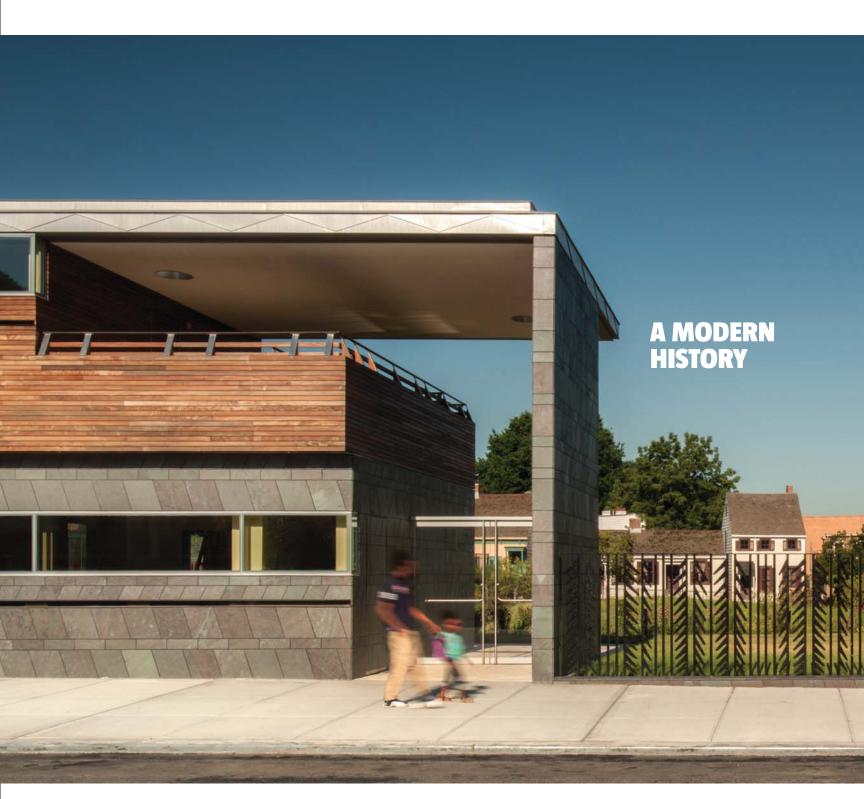
Neri Oxman Speaks 49 Sydney Opera at 40 27 Kinetic Products 64 The Next Wave in 3D Printing 70 Strip Mall Savoir-Faire 74

ARCHITECT

THE MAGAZINE OF THE AMERICAN INSTITUTE OF ARCHITECTS







Text by Katie Gerfen Photos by Brigida Gonzalez

NORMALLY, A PORTFOLIO of repeat work for a client is a big advantage going into a design competition. But in the case of Buchen, Germany-based Ecker Architekten and the new student center at Eckenberg Academy, it almost kept them from getting a seat at the table. "It's not easy to start an office again after transferring it to another continent," says partner Dea Ecker of the move her firm made from Chicago to Germany in 2000. "We did relatively bread-and-butter work," she says, including fire-code renovations for Eckenberg's 11-building campus in Adelsheim, Germany.

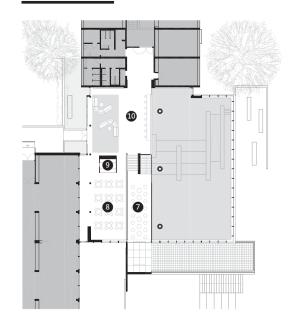
The school's drab cementitious-panel-clad boxes have not been added to since being built in the mid-1960s. So when the news went out about a commission to design a new auditorium and student center, Ecker wanted in. "It's actually tricky to convince a client that you are the person to design their once-in-a-generation new building if you've been doing their fire doors," says partner Robert Piotrowski. "You have to reintroduce yourself."

Luckily, there was a portfolio of camera-ready work at hand: The firm started in Chicago in 1997 after Ecker and Piotrowski had worked at (and lost jobs at) large firms and decided they needed a change. "We laugh about it because you notice that you're working so independently that no one can take you in a regular office anymore," Ecker says. Early work included the corporate headquarters for Chicago furniture manufacturer Holly Hunt, which the duo completed before deciding to relocate their practice to Ecker's native Germany. Ecker, who came to the U.S. on a Fulbright scholarship, actually was required to move back as a cultural ambassador. "She brought an American back with her," Piotrowski says—the two had been married in Chicago.

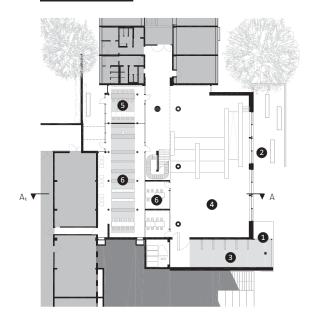
Ecker and Piotrowski maintain a multicultural office that focuses on education work, including several recent projects in Germany which caught the eye of the state government running the Eckenberg project. But ultimately, as with any commission, winning came down to finding a rapport with the client. The architects built a particularly strong relationship with the school's director, who was the driving force behind the project. "He noticed that there was no place where the students could gather," Piotrowski says. In this client champion, they found an ally who allowed them the freedom to create a 10,704-square-foot structure that serves as a new hub for the campus.

In fitting with its midcentury-modern context, the new building is quiet on the outside—a deceptively simple glass box—but its interior introduces a new generation of design for the school. The main space is a double-height assembly hall that can accommodate up to 300, and the facility also incorporates a library, multipurpose study rooms, a café, and a student lounge, all housed under a not-so-quiet, 25-meter-square, pouredin-place concrete roof, inset with circular coffers and acrylic domed skylights. "We left all the fireworks for the inside of the building," Piotrowski says. And, of course, all of the fire codes are up to date.

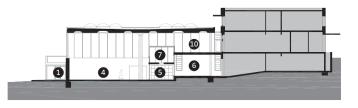
Second-Floor Plan



Ground-Floor Plan



Section A-A₁



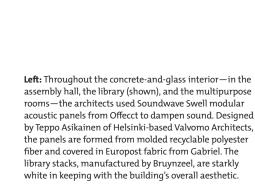
- Main entrance
- Terrace
- Foyer 3.
- Assembly hall
- Multipurpose room
- Library
- Bridge
- 8. Café
- 9.
- 10. Lounge
- Food kiosk









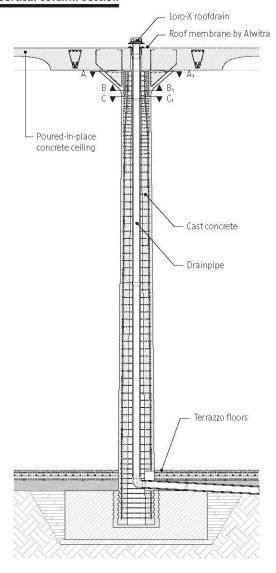




Above left: Library reading tables overlook the multipurpose rooms on the ground floor and the bridge leading to the café on the second floor. The glazing is from Balardo. Here, and in other study spaces, ceiling panels from Heraklith further dampen sound.

Above right: In a second-floor lounge next to the student café, carpet from Forbo helps soak up even more noise. The architects knew that acoustics would be a concern in a largely open interior of glass, terrazzo, and concrete. "But when you have a gathering of 300 people, clothes [absorb a lot of noise]," Piotrowski says. And the clients are comfortable with the fact that the addition still requires some fine-tuning. "They understand that having a brand new building, the first in 40 years, takes a little getting used to," he says, so it's not a process that they are accustomed to. But it is one that is welcome: "They have a little influence," Ecker says.

Vertical Column Section



Column A-A₁ Section

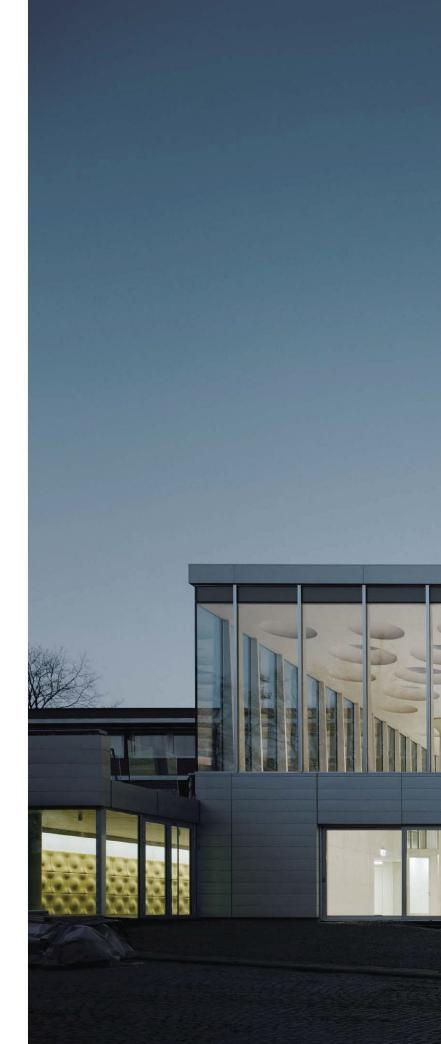


Column B-B₁ Section



Column C−C₁ Section







ARCHITECT OCTOBER 2013

Forum at the Eckenberg Gymnasium, Page 108

Project Forum at the Eckenberg Gymnasium,

Adelsheim, Germany

Client Baden-Württemberg Department of Property

and Construction, Heilbronn Office

Architect Ecker Architekten, Buchen, Germany-Dea Ecker, Robert Piotrowski (partners); Joachim Schuhmacher, John Ruffolo, Peter Borek, Tom Jin, Sophie

Hartmann, Mariana Martins, Shaique Uddin, Joshua Chan, Aref Nezami, Karolina Bieniek, Ankur Manchanda,

Michael Fung, Stephanie Polochowitz (project team)

Structural Engineer Rehle Engineers

M/E Engineer Carpus+Partner

Structural Analysis and Inspection Kist Engineering

Lighting Design Belzner Holmes

Acoustic Engineering and Building Physics Krämer-Evers

Size 1,000 square meters (10,764 square feet)

Cost Withheld

Material and Sources

Acoustics Heraklith heraklith.com; Offecct offecct.se Acrylic Skylights JET; Börner teppichschutz.com

Aluminum Rainscreen Kalzip kalzip.com

Carpet Forbo forbo-flooring.com; Tretford tretford.com

Columns Europoles europoles.com

Concrete Formwork Max Frank maxfrank.com

Curtainwall Schüco schueco.com

Exterior Shading Clauss Markisen clauss-markisen.de

Fabric Gabriel gabriel.dk

Finishes Formica formica.com

Flooring Nora nora.com

Free-standing Kiosk Knauf knauf.com

Furniture Brunner brunner-group.com; Bruynzeel

bruynzeel-storage.nl

Hardware FSB fsb.de

Lighting Ludwig Leuchten ludwig-leuchten.de; Planlicht planlicht.com; RSL Lichttechnik rsl.de; Selux selux.com

Lighting Controls GIRA gira.com

Roofing Alwitra alwitra.de; Loro loro.de

Metalsa Center for Manufacturing Innovation, Page 118

Project Center for Manufacturing Innovation Metalsa Cidevec, Apodaca, Mexico

Client The Proeza Group—Abraham Tijerina-Priego (director of innovation management)

Architect Brooks + Scarpa, Los Angeles — Lawrence Scarpa, FAIA (designer, principal-in-charge); Silke Clemens, Daniel Poei, Abby Katcher, Oliver Liao, Darien Williams, Jordan

Gearhart, Ching Luk, Mark Buckland, Angela Brooks, AIA, Emily Hodgdon, Daniel Safarik (project design team)

Architect of Record Centro de Diseño—Homero Fuentes Landscape PEG Office

Structural Engineering Carl W. Howe Partners

M/E/P Engineering Cobalt Engineering

Engineers of Record SPID Ingenieros (structural and civil); SENSA (mechanical); DINELEC (electrical)

LEED Consultant Zinner Consultants

Project Management Araltec—Alex Ruiz Cruz,

Evelia Garcia

Size 55,000 square feet

Cost Withheld

Material and Sources

Concrete LM Scofield Co. scofield.com

Doors Anemostat anemostat.com; McKeon Door Co. mckeondoor.com; Nationwide Industries nationwide industries.com; Ingersoll Rand ingersollrand.com; Timely Industries timelyframes.com; TM Cobb tmcobb.com;

Total Door Systems totaldoor.com

Flashing APOC apoc.com; Celotex celotex.co.uk;

GAF gaf.com; Grefco

Glazing PPG ppg.com

HVAC Runtal Radiators runtalnorthamerica.com

Insulation Johns Manville jm.com

Lighting Bega-US *bega-us.com*; Prudential Ltg. *prulite.com*; Belfer belfer.com; DelRay Lighting delraylighting.com;

Eaton's Cooper Lighting/Shaper cooperindustries.com; Philips Stonco stonco.com

Lighting Controls Lutron Electronics Co. *lutron.com*

Masonry Angelus Block Co. angelusblock.com Paints AFM Safecoat afmsafecoat.com

Plumbing Toto totousa.com; Hansgrohe hansgrohe.com

Roofing CertainTeed Corp. certainteed.com

Skylights Bristolite *bristolite.com*; Solatube International

Stormwater System Stormwater360 stormwater360.com; Contech Engineered Solutions contech-inc.com

Windows Fleetwood fleetwoodusa.com; US Aluminum Corp. usalum.com

Weeksville Heritage Center, Page 126

Project Weeksville Heritage Center, Brooklyn, N.Y. Client NYC Department of Design & Construction — David Burney, FAIA (director of design & capital improvement); NYC Department of Cultural Affairs -Victor Metoyer (deputy director of capital projects unit); Weeksville Heritage Center—Pamela Green (executive director)

Architect Caples Jefferson Architects, Long Island City, N.Y.—Sara Caples, AIA, Everardo Jefferson, AIA (principals);

Michael Behrman (associate principal)

M/E Engineer Loring Consulting Engineers

Structural Engineer Severud Associates

Civil and Geotechnical Engineer P.W. Grosser Consulting

Construction Manager Hill International General Contractor Brickens Construction

Landscape Architect Elizabeth Kennedy Landscape

Lighting Designer Berg-Howland Associates

Theatrical Lighting Cline Bettridge Bernstein Lighting

Cost Estimating Faithful & Gould

Building Department Metropolis

Specifications Heller + Metzger

Curtainwall Gordon Smith Construction

Sustainable Design & Commissioning Viridian

Security Ducibella Venter & Santore

Museum Programming Dial Associates

Size 23,000 square feet (building);

41,000 square feet (landscape)

Cost \$26 million

Material and Sources

Building Management Systems Johnson Controls

johnsoncontrols.com

Carpet Bigelow themohawkgroup.com

Ceilings Decoustics decoustics.com; Techstyle

hunterdouglascontract.com

Exterior Wall Systems General Woodcraft

generalwoodcraftinc.com

Flooring Oregon Lumber Co. oregonlumber.com

Furniture Steelcase steelcase.com

Glass JE Berkowitz jeberkowitz.com

HVAC AWL Industries

Masonry and Stone Vermont Structural Slate

vermontstructuralslate.com

Metal Allen Architectural Metals allenmetals.com

Millwork Mitchell's Restoration & Millwork; ACGI acgiwood.com

Paints and Finishes Art-in-Construction artinconstruction

.com; Sherwin Williams sherwin-williams.com Roofing Revere Copper reverecopper.com

Windows and Doors Door Engineering doorengineering .com; Schüco/S&C Products schueco.com

For more materials and sources, visit architectmagazine.com

Volume 102, number 10. October 2013. ARCHITECT® (ISSN 0746-0554; USPS 009-880) is published monthly by Hanley Wood, LLC, One Thomas Circle, NW, Suite 600, Washington, DC 20005. Copyright 2013 by Hanley Wood, LLC. Opinions expressed are those of the authors or persons quoted and not necessarily those of the American Institute of Architects. Reproduction in whole or in part prohibited without written authorization. All rights reserved. Printed in the USA.

Periodicals postage paid at Washington, DC, and at additional mailing offices. POSTMASTER: Send address changes to ARCHITECT P.O. Box 3494, Northbrook, IL 60065-9831.

Canada Post Registration #40612608/G.S.T. number R-120931738. Canadian return address: Pitney Bowes Inc., P.O. Box 25542, London, ON N6C 6B2.