

Cover: Crystal Cathedral Garden Grove, California Architects: Johnson/Burgee Photographer: Gordon Schenck

EDITOR

WALTER F. WAGNER, JR., AIA

EXECUTIVE EDITOR

MILDRED F. SCHMERTZ, FAIA

HERBERT L. SMITH, JR., AIA, Administration

ROBERT E. FISCHER

ASSOCIATE EDITORS

GRACE M. ANDERSON

DOLIGI AS BRENNER

CHARLES K. GANDEE

BARCLAY F. GORDON

CHARLES K. HOYT, AIA

JANET NAIRN

ROGER YEE

PRODUCTION EDITOR ANNETTE K. NETBURN

DESIGN

ALEX H. STILLANO, Director

ALBERTO BUCCHIANERI, Senior associate

ANNA-MARIA EGGER, Associate

MURIEL CUTTRELL, Illustration

J. DYCK FLEDDERUS, Illustration

JAN WHITE, Consultant

EDITORIAL CONSULTANTS

EDWARD LARRABEE BARNES, FAIA

JONATHAN BARNETT, AIA, Urban design

GEORGE A. CHRISTIE, JR., Economics

ERNEST MICKEL, Hon. AIA, Washington PAUL RUDOLPH, FAIA

Foreign architecture

L'Architecture d'Aujourd'hui, Paris

McGRAW-HILL WORLD NEWS

MICHAEL J. JOHNSON, Director

9 domestic and 10

international news bureaus:

Bonn, Brussels, Buenos Aires,

London, Milan, Moscow, Paris,

Singapore, Tokyo, Toronto.

SALES MANAGER

MICHAEL J. MRVICA

CIRCULATION DIRECTOR

RICHARD H. DI VECCHIO

BUSINESS MANAGER JOSEPH R. WUNK

MARKETING SERVICES MANAGER

CAMILLE H. PADULA

ASSISTANT TO PUBLISHER

ELIZABETH HAYMAN

PUBLISHER

PAUL B. BEATTY

THE RECORD REPORTS

13 Editorial

On evolution and interiors: a 16th issue of RECORD

- 4 Letters/calendar
- 33 News in brief

35 News reports

San Francisco's Ferry Building will undergo a \$50-million restoration. The AlA adopts an energy education program for architects. Professional liability insurance premiums are on the decline. Congress approves funds for improvements to urban waterfront areas. The GSA will spend \$4.2 billion to construct 172 Federal office buildings over the next four years.

39 Buildings in the news

The Chicago chapter of the AIA presents six Distinguished Building Awards



40 Architects for Portland's Fountain Plaza redevelopment will be Zimmer Gunsul Frasca Partnership.

43 Required reading

Chicago Tribune Tower Competition/ Late Entries

by Stanley Tigerman introduction by Stuart E. Cohen, reviewed by Christine Matheu.

ARCHITECTURAL BUSINESS

57 Dodge-Sweet's Construction Outlook: A wobbly recovery

Provided that the Federal Reserve allows 1980's high-interest rates to recede, the emergence from recession shown by housing construction during the past summer is likely to gain further momentum in 1981, leading a partial-if tentative-reversal of this year's steep decline in nonresidential construction, as well.



FEATURES

Johnson/Burgee Crystal Cathedral Embodiment of light and nature
The new church for the Reverend Dr. Robert Schuller in Garden Grove,
California, is both an inspiring and an inspired structure. Further, it is more than a vehicle for Schuller's pastorate—at once a religious edifice and a spectacular TV "studio." In truth, the building is extraordinary architecture—a building that reaches out to people and that people reach out to, a fair litmus

86 Birkerts' library for Duluth

architecture.

test for any serious piece of

mecaling the form of long cargo boats on the Great Lakes, the new Duluth Public Library, designed by Gunnar Birkerts and Associates, carries out the architect's nautical metaphor with prowand steel hull.



- Three architects' houses:
- Renato Severino

 Greenwich, Connecticut
- Morton Hoppenfeld
 Abuquerque, New Mexico
- Tod Williams Sagaponack, New York

BUILDING TYPES STUDY 552

104 The 1980 winners in the first Aga Khan Award for Architecture

This award, established in 1978, was designed to encourage Muslim leaders and their architects, both Western and Muslim, to begin to pay attention to Muslim beliefs, ways of life and building traditions and allow these forces to help shape the new environments in which a 1,800-year-old religious culture will persist. The fifteen winners are included in this study. They have been sorted into the seven following categories as determined by the master jury.

- 106 Search for architectural innovation Projects from Mecca and Kuwait
- 110 Social premises for future architectural development Self-help efforts in Indonesia
- 112 Search for appropriate building systems A low-technology labor-intensive structural method developed in Senegal
- 114 Search for consistency with historical context

A headquarters building for a cultural institution in Turkey, a hotel in India, and a house on the Turkish coast

118 Restoration

Ancient buildings conserved in Turkey, Iran and Qatar



122 Search for contemporary use of traditional language

Housing in Morocco, a private house in Egypt and a medical center in Mali

124 Search for preservation of traditional heritage

A village in Tunisia conserves its vernacular architecture

ARCHITECTURAL ENGINEERING

82 Crystal Cathedral:

The engineering details

How the space frame works and how the building is ventilated naturally.

- 128 Office literature
- 135 Product reports
- 165 Classified advertising
- 170 Architectural Record Book Shop
- 178 Advertising index
- 181 Reader service inquiry card

NEXT MONTH IN RECORD

Building Types Study: Federal Buildings Overseas

America's new embassies and consular buildings overseas will have a new look that will reflect Washington's revised image of its role and presence overseas. By and large they will be good buildings, for they come out of a Federal program that once again insists on quality.