

PASSIVE HOUSE METHODOLOGY, DESIGN AND CONSTRUCTION

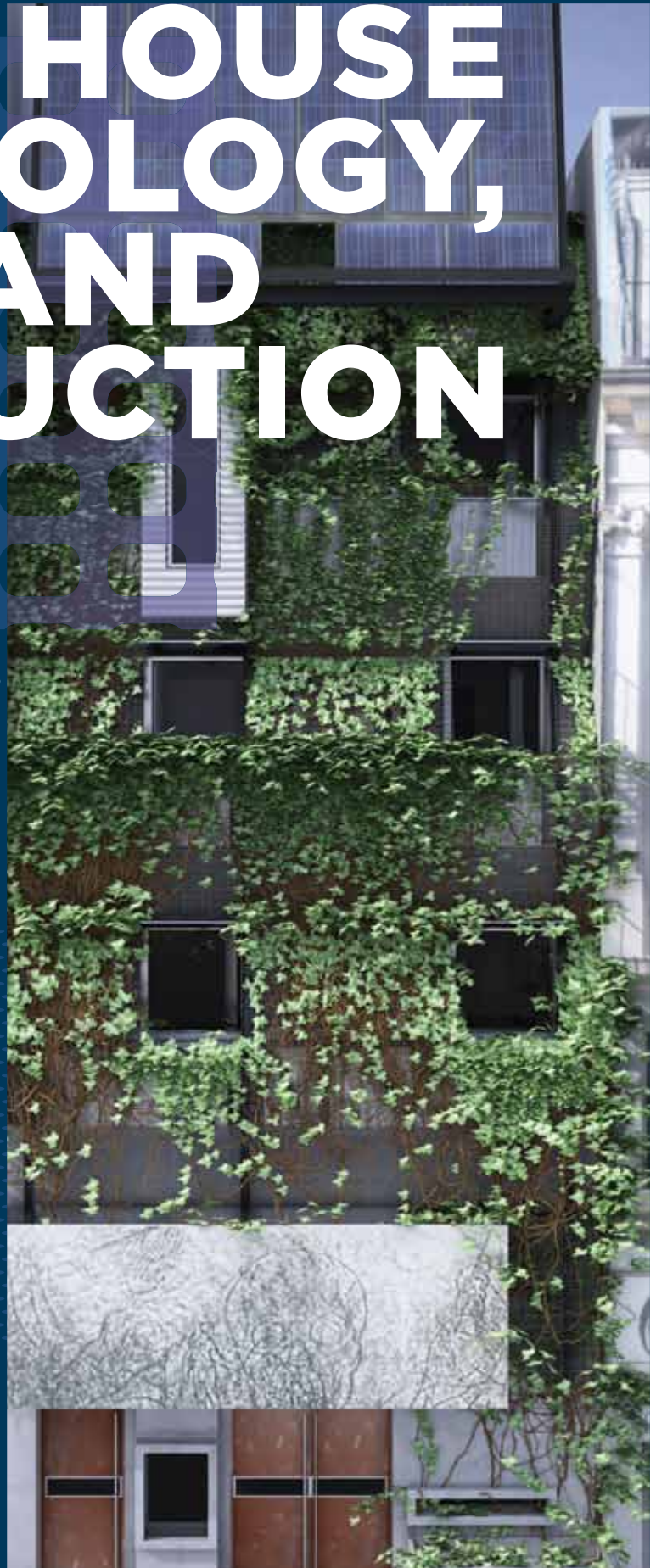
PASSIVE HOUSE CONSTRUCTION IS RAPIDLY GARNERING ATTENTION AND POPULARITY IN THE UNITED STATES. THE PASSIVE HOUSE METHODOLOGY RESULTS IN DRASTIC BUILDING ENERGY REDUCTIONS (ESTIMATED AT 75% TO 80%), BEST-PRACTICE INDOOR AIR QUALITY AND SUPERIOR USER COMFORT. THE PRESENTATION ON PASSIVE HOUSE WILL BEGIN WITH AN INTRODUCTION TO PASSIVE HOUSE, TOUCHING UPON PASSIVE HOUSE HISTORY, PASSIVE HOUSE TECHNIQUES AND STRATEGIES, AND THE PASSIVE HOUSE ENERGY MODEL (PHPP). THERE WILL BE A DISCUSSION ON IMPLEMENTING PASSIVE HOUSE IN NEW YORK CITY, COVERING TOPICS SUCH AS PASSIVE HOUSE IN THE LOCAL CLIMATE, LOCAL CODE ISSUES, RETROFIT AND NEW CONSTRUCTION, AND HOW PASSIVE HOUSE FITS WITHIN THE LARGER GOALS OF NYC PUBLIC POLICY (SUCH AS PLAN 2030 AND LEED ACCREDITATION). FINALLY, THE PRESENTATION WILL PRESENT CASE STUDIES OF PASSIVE HOUSE CONSTRUCTION, DEMONSTRATING THE APPLICABILITY OF THE PASSIVE HOUSE METHODOLOGY TO MULTIPLE CONSTRUCTION TYPES.

PAUL A. CASTRUCCI, R.A., PAUL A. CASTRUCCI, ARCHITECT
PAUL A. CASTRUCCI IS A REGISTERED ARCHITECT EXPERIENCED IN ARCHITECTURAL DESIGN, PLANNING AND CONSTRUCTION. HIS PROJECTS INCLUDE INTERIOR FINISHES AND HISTORIC PRESERVATION FOR COMMUNITY GROUPS, GOVERNMENT AGENCIES AND PRIVATE RESIDENCE. HE STRESSES THE IMPORTANCE OF BUILDING DESIGN BEING RESPONSIVE TO THE CULTURE IN WHICH IT IS TO BE SITUATED. HE BELIEVES THAT WHERE PRACTICAL, BUILDINGS SHOULD GENERATE ALL OR A PORTION OF ITS ENERGY NEEDS THROUGH ACTIVE OR PASSIVE SOLAR HEATING, PHOTOVOLTAIC ENERGY GENERATION, DAYLIGHTING AND VENTILATION SCHEMES. HE HOLDS A B.A. ARCHITECTURE DEGREE FROM THE N.Y. INSTITUTE OF TECHNOLOGY.

GRAYSON JORDAN, R.A., PAUL A. CASTRUCCI, ARCHITECT
GRAYSON JORDAN RECEIVED A BACHELOR OF ARCHITECTURE DEGREE FROM CARNEGIE MELLON UNIVERSITY. HE IS A CERTIFIED PASSIVE HOUSE DESIGNER. HE FOCUSES ON ENERGY EFFICIENCY AND SUSTAINABILITY. HIS WORK INCLUDES A COMMERCIAL PASSIVE HOUSE IN N.Y.C. AND SEVERAL SUPER-INSULATED RESIDENTIAL PROJECTS. HE HAS WORKED CLOSELY WITH DEVELOPERS, INDIVIDUAL CLIENTS AND VARIOUS N.Y.C. AGENCIES. HE WAS A KEY MEMBER OF A TEAM WHO PREPARED THE RE-ZONING MASTER PLAN FOR THE GOWANUS AREA OF BROOKLYN FOR THE AIA-150 DESIGN COMPETITION.

JORDAN GOLDMAN,
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JORDAN GOLDMAN IS A SPECIALIST IN ENERGY MODELING, MECHANICAL ENGINEERING, AND MANAGES THE HVAC DESIGN PRACTICE FOR ZEROENERGY DESIGN. HE IS FLUENT IN BUILDING ENERGY STRATEGIES, EFFICIENT CONSTRUCTION SYSTEMS, BUILDING SCIENCE DESIGN PRINCIPLES, AS WELL AS MECHANICAL SYSTEM DESIGN, SPECIFICATION, AND SIZING FOR ENHANCED PERFORMANCE. HE ALSO IS EXPERIENCED IN RENEWABLE ENERGY SYSTEMS, SUCH AS PHOTOVOLTAICS AND SOLAR HOT WATER. HE IS A CERTIFIED PASSIVE HOUSE CONSULTANT, LEED CERTIFIED, AND A VERIFIER FOR NAHB'S NATIONAL GREEN BUILDING STANDARD. HE HOLDS BACHELOR OF SCIENCE AND MASTER OF ENGINEERING DEGREES FROM CORNELL UNIVERSITY.



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