THE GUIDE
An Overview of IIBEC Services

International Institute of Building Enclosure Consultants
Become a Member
Enjoy exclusive benefits, services, and resources as an IIBEC member

IIBEC offers a wide array of professional enrichment opportunities for those seeking to advance their skills or further develop their involvement as a building enclosure consultant.

Start your membership today at iibec.org
The International Institute of Building Enclosure Consultants (IIBEC, pronounced eye-bec) is an international association of professionals who specialize in roofing, waterproofing, and exterior wall specification and design. From sprayed polyurethane foam to cedar shakes, from parking garages to air barriers, IIBEC has a member expert for every type of roof, exterior wall, or waterproofing issue in the world today. Founded in 1983 as the Roof Consultants Institute, it later became RCI, Inc., and then in 2019, rebranded as the International Institute of Building Enclosure Consultants as its purpose evolved and its membership expanded their services.

Since 1983, IIBEC’s Consultant members have offered unbiased design, repair planning, quality assurance observance, legal testimony, and general roofing and other building enclosure management services. IIBEC’s Consultant members adhere to a strict code of ethics that offers unprejudiced service without affiliation with any product or manufacturer. Current membership is over 3,500. IIBEC boasts an international constituency residing across the United States, Canada, Mexico, South America, the Middle East, Europe, and Asia.

The association presents educational programs designed to demystify and explain the practical application of roofing and waterproofing technology and sound building enclosure theory. A monthly technical journal (IIBEC Interface); periodic articles on our online newsfeed; and ongoing international, regional, chapter, and branch events provide interactive forums for information exchange and networking.

The Registered Roof Consultant (RRC®), Registered Waterproofing Consultant (RWC®), Registered Exterior Wall Consultant (REWC®), Registered Roof Observer (RRO®), and Registered Exterior Wall Observer (REWO®) programs distinguish professionals with proven standards of education, experience, and ethics. Individuals with all three consultant registrations/designations (RRC®, RWC®, and REWC®) may apply to be a Registered Building Enclosure Consultant (RBEC®). The Certified Building Enclosure Commissioning Provider (CBECxP®) is a new ISO 17024-compliant certification offered by IIBEC.

The RCI-IIBEC Foundation (U.S.) and the RCI Foundation Canada are tax-exempt entities, organizationally independent of the association, that support research and educational efforts of the industry.

The mission of the International Institute of Building Enclosure Consultants is realized through the efforts of a professional staff headquartered in Raleigh, North Carolina; a volunteer board of directors; numerous committees; and its individual members across the globe.

We invite you to use this guide to discover more about IIBEC and the professional path of its members. Whether you are a current IIBEC member, a nonmember professional, or a building owner or manager seeking a qualified referral, these pages should answer many of your questions. For further information, including individual members’ contact information, please visit the association’s website at iibec.org or contact IIBEC headquarters at 919-859-0742 or 800-828-1902.
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Purpose
To advance the profession of building enclosure (roofing, waterproofing, and exterior wall) consultants.

Values
- Ethical, independent, and unbiased practice
- Pursuit and exchange of knowledge
- Promote sustainability and resilience
- Commitment to the industry

Vision
IIBEC is universally recognized as the leading authority in building enclosure consulting.

Be the primary technical, educational, and networking resource of the building enclosure industry.

Advocacy
Advocate for consultant members at all levels of government.

- Increase influence on federal, state, provincial, and local public policy.
- Help shape codes and standards.
- Expand influence in the building industry.
- Increase the relevance and value of IIBEC’s policy positions.

Lead the industry in building enclosure consulting registrations and certifications.

- Increase the number of registrants, focusing on exterior walls and waterproofing.
- Develop a CBECxP certification program.
- Increase knowledge of IIBEC registrations and certifications to the industry.
- Maintain registrations with the most current industry standards.

Registrations & Certifications

Empower members to achieve and sustain business and industry success.

- Provide educational offerings related to roofing, waterproofing, exterior walls, and building enclosure commissioning.
- Supply relevant building enclosure industry data.
- Increase access to IIBEC education products.
- Increase educational offerings to obtain and maintain registrations.

Expand chapter success and effectiveness for members and local communities.

- Promote and grow the value and brand of IIBEC.
- Increase involvement of chapter leaders.
- Enhance the relationship between IIBEC and chapters.
- Increase effectiveness of chapters in influencing local public policy issues.

Chapters

Engage and attract emerging professionals in the building enclosure industry.

- Increase the number of members under 40.
- Create member benefits for emerging professionals.
- Bridge the gap between higher education and the building enclosure industry.

Members and registrants uphold the IIBEC Code of Ethics.

- Sustain awareness and enforcement of the IIBEC Code of Ethics.
- Promote value of members and registrants by showcasing the IIBEC Code of Ethics as a core value.

Knowledge Transfer

Value of IIBEC

iibec.org | 800-828-1902
Mr. Sheridan is president of Fishburn Sheridan & Associates Ltd., which he founded in 2001, and now has five offices across eastern Canada. He was Region VII director from 2014-17 and has been an instructor at various IIBEC seminars. He has been on numerous IIBEC exam development committees.

Mr. Giffin is a past president of the Georgia Chapter of IIBEC, was director of Region II from 2017-19, and has been chair of IIBEC’s Document Competition Committee. He is a principal with Wiss, Janney, Elstner, for which he has worked since 1988. He holds a bachelor’s degree in architecture from the University of Illinois.
Ms. Peevey is a past president of the Gulf Coast Chapter of IIBEC, was Building Enclosure Symposia Committee chair from 2015-18, and has been a featured speaker at IIBEC conventions and symposia. She is Regional Director, Building Envelope at Vidaris, and leads Vidaris Building Envelope growth opportunities for the Texas and surrounding area. She holds a bachelor’s degree in architectural engineering from the University of Texas at Austin.

Mr. Hinojosa is the principal engineer and owner of the firm RJH & Associates, Inc. with four offices in the U.S. and Canada and is licensed in 35 states. He is a past Region II Director, has sat on numerous committees, developed and taught many continuing education courses, has published articles in Interface, is a Past President of IIBEC, and is a fellow of IIBEC.

Mr. Hinesley is president of REI Engineers, Inc., an engineering firm with eight offices located throughout the eastern U.S. He is a past president of the Carolinas Chapter, a past member of the IIBEC Interface Editorial Board, and of the IIBEC Ethics Committee. He also serves on the executive committee of the NC Chapter of the American Council of Engineering Companies (ACEC/NC).

Mr. Pallasch joined the IIBEC staff team as executive vice president and chief executive officer in June 2019 after 20 years with the American Society of Civil Engineers (ASCE), most recently as Managing Director of Government Relations and Infrastructure Initiatives. Prior to that, he was Director of Government Relations for the American Subcontractors Association. Pallasch holds a Master of Arts degree in international affairs from the American University, and a Bachelor of Arts degree in journalism and international affairs from the University of Southern California.
Ms. Palmer is a Senior Associate of Wiss, Janney, Elstner Associates, Inc., a global firm of engineers, architects, and materials scientists committed to helping clients solve, repair, and avoid problems in the built world. She has eighteen years of experience working on building enclosure restoration and rehabilitation projects, with a specific focus on roofing. Palmer has been active with the Delaware Valley Chapter of IIBEC for many years and have served on the chapter board for the past four years.

Mr. Fell is Chief Financial Officer of Building Engineering-Consultants Inc., a professional building envelope consulting firm. He has over 25 years’ experience in the industry, and was instrumental in growing a family business with four employees to over 65 employees. He joined RCI/IIBEC in 1999 and is currently a consultant member and Registered Waterproofing Consultant (RWC). He has served several leadership positions at the branch and chapter levels.

Mr. Sietmann is an Associate Principal with Building Technology Consultants, Inc. He has over 15 years experience assisting in the evaluation, analysis, repair, and rehabilitation of existing building facades, windows, roofing and waterproofing systems. He is a past president of the Chicago Area Chapter of IIBEC, and previously served on the IIBEC Document Competition Subcommittee and the IIBEC Building Enclosure Symposia Committee.

Mr. Johnson has over 35 years of experience as a practicing architect. He holds a bachelor of science degree in architecture from the University of Louisiana at Lafayette. He is the founding chair of the Louisiana Branch of IIBEC, has presented numerous IIBEC courses, and is a past chair of the IIBEC Ethics Committee.
Mr. Zienkiewicz co-founded Larsen Zienkiewicz, Inc. in 2015. He has been a member of the Emerging Professionals Committee and the Chapter Development Committee of IIBEC and has been active in the SoCal Chapter, holding the offices of president and chair of the chapter’s Hawaii Winter Workshop Committee.

Mr. Carver is the owner of Apex Building Sciences Inc., founded in 2008. He has been involved with the RRO Exam Committee, the RRC Exam Committee, the Chapter Development Committee, and the Advocacy Committee. He is the past president of the Western Canada Chapter of IIBEC, and in 2018 he received the IIBEC Outstanding Volunteer Award.

Ms. Hogan is a past president of the Ontario Chapter of IIBEC and was the chair of the first Canadian Building Enclosure Symposium put on by IIBEC in 2018. She has been a member of IIBEC task groups and received IIBEC’s Emerging Professional Award in 2018.
COMMITTEES

ADVOCACY
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**EDUCATION**
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**NOMINATING**
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**RRC® EXAM DEVELOPMENT**
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RWC® EXAM DEVELOPMENT
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40TH ANNIVERSARY TASK FORCE
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Certified Building Enclosure Commissioning Provider (CBECxP®)

The CBECxP® is an individual who will conduct all tasks required to carry out a comprehensive and complete building enclosure commissioning process. The certification is not limited to specific sizes of buildings or certain building use; it will apply to building enclosure commissioning of all buildings. Learn more at iibec.org.

Free IIBEC/AIA Continuing Education Courses On-Demand.
CCM University is your one-stop educational resource hub for the whole CCM family of companies. CCM University allows you to use one login to access a wide variety of course options.

To learn more, visit ccm.buildingmedia.com or scan below.
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Kentucky
Mississippi
North Carolina
South Carolina
Tennessee
Virginia

Region III
Illinois
Indiana
Iowa
Kansas
Michigan
Minnesota
Missouri
Nebraska
North Dakota
South Dakota
Wisconsin

Region IV
Arkansas
Louisiana
Mexico
Oklahoma
Texas

Region V
Alaska
Arizona
California
Colorado
Hawaii
Idaho
Montana
Nevada
New Mexico
Oregon
Utah
Washington
Wyoming

Region VI
Alberta
British Columbia
Manitoba
Northwest Territories
Nunavut
Saskatchewan
Yukon

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Newfoundland/Labrador
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IIBEC-AFFILIATED CHAPTERS

REGION VI

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REGION VII

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Providing Operational Security for the World’s Most Powerful Brands

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Watch our video series for the latest trends, insights and resilient roof technologies.
IIBEC Government Relations initiatives include:

- Increasing influence on federal, state, provincial, and local policy.
  - IIBEC will monitor and take action on legislative or regulatory proposals that impact the membership wherever they are introduced.

- Helping shape codes and standards.
  - IIBEC will work to influence codes at the national level.
  - IIBEC will work through its members to influence code changes at the local level.

- Expanding influence in the building industry.
  - Serving on numerous coalitions like the Roofing Day Advisory Committee, Construction Industry Procurement Coalition, AIA’s Resilient Building Coalition, and others to ensure IIBEC’s interests are heard and represented.

- Increasing the relevance of public policy positions.
  - IIBEC is updating current policy positions to support our advocacy campaigns and help educate others about the issues important to members.

- Increasing the effectiveness of chapters in influencing local public policy.
  - IIBEC will work directly with chapters to strengthen their advocacy capabilities.

**Mission:**

Advocate for consultant members at all levels of government in Canada and the United States.

Working through the IIBEC Advocacy Committee and with chapters and branches, IIBEC’s advocacy efforts will be driven by member interests.
IIBEC ADVOCACY FOR CHAPTERS AND MEMBERS

Whether it is one person or an official committee, by harnessing the resources available from IIBEC, we can ensure our voice is heard when legislation and regulation impacting the profession is discussed. IIBEC will be a resource to the chapter at every stage, from organizing and identifying key issues to helping write letters and meeting with elected officials to discuss important issues. IIBEC is committed to assisting its affiliated chapters in establishing a government affairs program. As long as the government has a say over how buildings are constructed and by whom, IIBEC members must be involved to protect the interests of the profession.

CHAPTER VISITS

IIBEC staff can attend in-person or virtual events and provide professional government affairs assistance upon request. In addition to speaking at chapter events, IIBEC government affairs staff can help you develop an advocacy program and strategies to address issues important to the members.

STATE & LOCAL LEGISLATIVE MONITORING

IIBEC monitors legislation at the state level that could impact members. From procurement legislation to changes in the building codes, IIBEC will alert chapters when our system catches legislation of interest.

LEGISLATIVE ANALYSIS

Legislative text can be confusing even to practiced professionals. Upon request, IIBEC staff will review legislation you are concerned about and work with you to evaluate the measure, develop a position, and form a strategy for engagement.

LETTER WRITING PROGRAM

Letters and electronic messages are an excellent way to communicate with and educate your elected representatives and regulators on issues impacting the building enclosure profession. IIBEC has experience drafting letters for use in advocacy efforts.

HOW TO HOST YOUR LEGISlator

IIBEC can help identify, design, and invite key local officials to an event to discuss legislative or regulatory issues impacting the sector and educate them on the building enclosure profession.

LOBBY DAYS/LEGISLATIVE VISITS

IIBEC can assist in organizing visits with your local officials, topics to cover, and best practices for communicating with elected officials and their staff. IIBEC can also help with drafting and preparation of statements if speaking or testifying before a legislative panel.

COALITION BUILDING

IIBEC can help build relationships with other associations related to the building enclosure profession. IIBEC knows that in advocacy, the number of organizations weighing in on legislation or regulation influences the success of the endeavor. IIBEC staff have extensive relationships with local and national associations and can help identify likely coalition partners and build relationships that could help advance the chapter’s advocacy agenda.
IIBEC is the International Institute of Building Enclosure Consultants. Members specialize in design, investigation, repair, and management of roofing, exterior wall, and waterproofing systems. Whether you are a current member, an aspiring young professional, a student, or looking to add registrations to your title, IIBEC can help you gain the knowledge to keep progressing in your career.

Trust and Respect
Gain respect among clients throughout the industry via education, registrations, and adherence to the IIBEC Code of Ethics.

Prestige and Credibility
Become part of a recognized community with professional credentials such as Registered Roof Consultant (RRC®), Registered Roof Observer (RRO®), Registered Waterproofing Consultant (RWC®), Registered Exterior Wall Consultant (REWC®), Registered Exterior Wall Observer (REWO®), Registered Building Enclosure Consultant (RBEC®), and Certified Building Enclosure Commissioning Provider (CBECxP®)

Network of Peers
Join the leading open forum for sharing information amongst building enclosure professionals.

Influence
Shape the industry and affect policy through committee work; leadership roles such as chapter, regional, and national board activity; publication in technical journals; and presenting at symposia.

Direct Referrals
Get your name placed on IIBEC’s exclusive membership database for online referrals worldwide.

Information
Gain industry knowledge through the IIBEC interface technical journal, online newsfeed articles, technical advisories, targeted emails, and social media.

iibec.org | info@iibec.org | 800-828-1902 | Raleigh, NC

Membership Savings:
Up to 50% on products and technical publications
15% off of attendance at educational programs and region meetings
Up to 40% on RRC, RWC, REWC, RRO, and REWO application and exam fees
More than 20% off on registration to the IIBEC International Convention and Trade Show
Up to 25% on exhibit fees at the IIBEC International Convention and Trade Show and Building Enclosure Symposium
THE IIBEC PODCAST

LISTEN TODAY AT IIBEC.ORG/PODCAST
Introduction: The International Institute of Building Enclosure Consultants (IIBEC) is dedicated to the highest standards of professionalism, integrity, and competence. The standards contained in this Code of Ethics (Code) are statements of ethical principles by which the professional conduct and obligations of all IIBEC members and registrants shall be guided.

Under the IIBEC Bylaws, all IIBEC members and registrants are required to comply with the Code of Ethics and to report any observed violations. Adherence to this Code must be above reproach and beyond the influence of competing interests. Even the appearance of a conflict of interest shall be avoided.

The standards contained in this Code of Ethics are statements of ethical principles having broad applicability to members and registrants of IIBEC.

Members and registrants of IIBEC shall recognize that their profession and their practice may be governed by various laws and regulations regarding professional registration and the conduct of trade. It is their responsibility, therefore, to be familiar with those laws and regulations and to conduct themselves accordingly.

General Obligations: Members and registrants shall maintain and further their knowledge of the science in which they practice, and shall maintain the highest possible standard of professional judgment and conduct. Members and registrants shall conduct their practice honestly and impartially, serving with integrity their clients, employers, and/or the public. Learned and uncompromised professional judgment should take precedence over any other motive.

Obligation to the Public: Members and registrants shall uphold the letter and spirit of the ethical standards governing their professional affairs and shall consider the full impact of their actions on the community at large.

Fundamental Canons
Members and registrants of IIBEC, in the performance of their duties, shall:
1. Hold paramount the safety, health, and welfare of the public;
2. Uphold the letter and spirit of the ethical standards governing their professional affairs, considering the full impact of their actions on the community at large and conducting themselves in a fashion that brings credit to themselves, their employers, their peers, and their profession; and
3. Recognize the value and contributions of others engaged in all aspects of consultation, design, and construction.

Rules of Practice
1. Members and registrants shall hold paramount the safety, health, and welfare of the public in the performance of their duties.
   a. If a member’s or registrant’s judgment is overruled under circumstances that, in the opinion and best professional judgment of the member or registrant, endanger life or property, the member or registrant shall:
      i. Advise his or her employer and/or client about the decision,
      ii. Refuse to consent to the decision, and
      iii. Notify the appropriate building authority charged with the enforcement of the applicable laws or regulations.
   b. Members or registrants who have knowledge of any alleged violations of this Code shall report them to the appropriate public authorities and IIBEC, and shall cooperate with appropriate public authorities and IIBEC in providing such information as may be applicable.
2. Members and registrants shall not permit the use of their names or firms nor associate in business ventures with any person or firm that they have reason to believe is engaged in fraudulent or dishonest business or professional practices.
3. Members and registrants shall uphold the letter and spirit of the ethical standards governing their professional affairs, consider the full impact of their actions on the community at large, and conduct themselves in a fashion that brings credit to themselves, their employers, and their profession by:
   a. Engaging only in accurate, appropriate, and truthful promotion of their practice;
   b. Being respectful of the rights of others in obtaining work or employment;
   c. Making only accurate, truthful, and appropriate statements or claims about their qualifications, experiences, or performance;
   d. Being objective and truthful in reports, statements, testimony, and on social media;
   e. Preserving the confidentiality of their clients and employers and serving each in a professional and competent manner;
9. Members and registrants shall be scrupulously honest in their control and spending of monies, and promote effective use of resources through open, honest, and impartial service with fidelity to the public, employers, associates, and clients.

10. Members and registrants shall approve or issue only those documents reviewed or prepared under their direct control and supervision that are determined to be safe for public health and welfare, in conformity with accepted industry standards and applicable laws.

11. Certain practices are not in themselves unethical, unprofessional, or contrary to any policy of IIBEC, and IIBEC members and registrants are free to decide for themselves whether to engage in any of these practices, unless in violation of an applicable law. These may include the following:
   a. Contributing his/her services or anything of value to those endeavors that the member deems worthy;
   b. Participating in the political process and contributing time and money to political campaigns;
   c. Submitting competitive bids or price quotations, including in circumstances where price is the sole or principal consideration in the selection of a consultant;
   d. Providing discounts; or
   e. Providing pro bono services.

Enforcement and Amendment

1. Enforcement of the Code of Ethics is administered through the IIBEC Ethics Committee, appointed by the IIBEC Board of Directors, and as set forth in the IIBEC Ethics Administrative Procedures.

2. The IIBEC Code of Ethics may be amended by the IIBEC Board of Directors upon a two-thirds vote of the Board.
Recognizing the need for qualifications and standards in an unregulated industry, IIBEC has developed five highly regarded registration programs. Roof consultants, exterior wall consultants, waterproofing consultants, and quality assurance observers can establish their credentials through the Registered Roof Consultant (RRC®), Registered Waterproofing Consultant (RWC®), Registered Exterior Wall Consultant (REWC®), Registered Roof Observer (RRO®), and Registered Exterior Wall Observer (REWO®) programs. All five represent a high level of competence, experience, and ethics, as well as a commitment to continuing education. Each requires an application process and satisfactory performance on an examination.

Each candidate must submit a completed application to IIBEC with the appropriate application fee. Allow 90 days for processing. Applications may be completed online at iibec.org/professional-registrations/. They are also available upon request from IIBEC. Study guides, which offer sample questions and a list of reference materials from which the exam questions were developed, are available.

Once an application has been approved, the candidate is sent a registration form to take the exam. This form is not available on the website.

Computer-based testing is available to all approved candidates. IIBEC provides the testing company (Scantron) with candidate eligibility information. Candidates are then contacted to schedule their testing sessions at one of the 1,000 conveniently located Scantron testing center locations. Consult www.scantron.com/test-site-cities/ for a testing site location near you.

Approved applications are valid for two years, and an application extension is required if the applicant does not earn the RRC, RWC, REWC, RRO, or REWO title within that time. Application extensions can be less involved than the original process, depending on the age of the information; therefore, immediate action is recommended. Contact IIBEC for a specific application.

Once an application has been approved and the exam has been passed, the candidate has qualified for a registration title and will be honored at an awards ceremony during the next annual IIBEC International Convention and Trade Show. A registration card is also provided and will be reissued every year upon renewal.

The RBEC, RRC, RWC, REWC, RRO, and REWO designations are highly regarded, for they represent the pinnacle of roofing, waterproofing, and exterior wall professionalism.
GENERAL CONSULTANT KNOWLEDGE EXAM

The General Consultant Knowledge (GCK) exam was developed to test areas common to all components of the building enclosure (roofing, waterproofing, and exterior walls). This concept was designed to produce a more efficient testing process, eliminating common information being tested for each consultant designation. Once passed, the GCK exam will not need to be retaken should there be interest in pursuing multiple consultant designations. To earn any consultant designation (RRC, RWC, REWC), an applicant must take and pass both the GCK exam and the technical exam associated with the desired registration. If an applicant already possesses a consultant designation, he or she is exempt from taking the GCK exam. If only one is passed, the candidate will be required to retake only the part he or she failed. The exam that is passed will remain valid until the candidate is successful in passing the other exam and the designation is earned.

Candidates who do not meet the required grade point to pass an exam will have the option to retest every four months.

There is no separate application for the GCK exam. Approval of any consultant application will qualify the applicant to take it. A study guide for the exam is available from IIBEC and on the website. IIBEC’s Professional Building Enclosure Consulting course is recommended for those planning to take the general exam.

The GCK exam is offered at computer-based testing centers and has 90 multiple-choice questions that involve the following topics: ethics, general skills, communications and reports, codes and standards, design processes, procurement processes, agreements, and construction administration. Exam takers are given four hours to complete this exam.

Fees for the GCK exam are as follows:
• $250 for IIBEC members
• $325 for nonmembers

REGISTERED ROOF CONSULTANT PROGRAM

The demand for the Registered Roof Consultant (RRC) title by private clients and public agencies has been growing rapidly. Requirements for attaining this title are stringent and take considerable time and effort to fulfill. While membership is not required, most RRCs choose to join the organization. IIBEC’s RRC Review and Update course is highly recommended for anyone planning to take the RRC exam. Several IIBEC skill enhancement courses are also recommended, including Roof System Thermal and Moisture Design, Roof Drain Design, and Wind Design courses. These courses are not part of the registration process and do not cover all that is on the RRC exam; however, they do provide important basic information.

Requirements

Successful candidates must demonstrate, by application, certain minimum requirements regarding education, personal work experience, character, and ethics. Verification of an applicant’s education and/or work experience is done with a point system. A minimum of 100 points is required and is based on one of the following: work experience only; experience and education; or experience, education, and professional registration. In addition, the applicant must obtain a minimum of 70 continuing educational hours (CEHs) directly related to the roofing, waterproofing, and/or exterior wall industries. Although a total of five character references are required, three must be submitted from registered architects, professional engineers, or RRCs. A satisfactory score on an exam is required after application approval. The RRC exam is offered at hundreds of Scantron’s conveniently located testing centers.

Fees

The fees for RRC applicants are shown on page 33.

The RRC Exam

Test takers will be given four hours to complete the computer-based exam. This will include 60 multiple-choice questions that involve the following topics: codes and standards, materials and properties, assemblies, analysis and design, and evaluation and testing. Some problems may involve mathematical computations that require familiarity with basic algebra, geometry, and trigonometry.

Scientific calculators and reference materials are provided within the exam. A study guide is available on the website or from IIBEC upon request.

Renewal Policy

Renewal requirements are listed on page 33 under Registration Renewal Policy.
IIBEC’s Registered Waterproofing Consultant (RWC) program was established in 2005. The requirements for attaining this title are stringent and take considerable time and effort to fulfill. IIBEC’s two-day Waterproofing course is highly recommended for anyone planning to take the RWC exam. This course is not part of the registration process and does not cover all that is on the RWC exam; however, it does provide important basic information.

Requirements
Successful candidates must demonstrate, by application, certain minimum requirements regarding education, personal work experience, character, and ethics. Verification of an applicant’s education and/or work experience is done with a point system. A minimum of 100 points is required and is based on one of the following: work experience only; experience and education; or experience, education, and professional registration. In addition, the applicant must obtain a minimum of 70 continuing educational hours (CEHs) directly related to the roofing, waterproofing, and/or exterior wall industries. Although a total of five character references are required, three must be submitted from registered architects, professional engineers, RRCs, RWCs, and/or REWCs. A satisfactory score on an exam is required after application approval. The RWC exam is offered in computer-based format at Scantron’s conveniently located testing centers.

Fees
The fees for RWC applicants are shown on page 33.

The RWC Exam
Four hours have been allotted for this computer-based exam. This includes 60 multiple-choice questions on the following topics: materials, systems, design, industry standards, and testing and investigation. Some problems may involve mathematical computations that require familiarity with basic algebra, geometry, and trigonometry. Scientific calculators and reference materials are provided within the exam.

Renewal Policy
Renewal requirements are listed on page 33 under Registration Renewal Policy.
The Registered Exterior Wall Consultant (REWC) program was established in 2011. The requirements for attaining this designation are stringent and take considerable time and effort to fulfill. The following courses are recommended for those pursuing this designation: Exterior Wall Technology and Science, Exterior Concrete Wall Systems, Masonry Wall Systems, and Stucco and Exterior Finish Cladding Systems. These courses are not part of the registration process and do not cover all that is tested on the REWC exam; however, they do provide important basic information.

**Requirements**

Those who desire to become REWCs must substantiate certain requirements before qualifying to take the exam. These requirements include documenting levels of work experience, education, and high ethical standards. The application for this registration guides the applicant through the rigorous process.

Verification of an applicant’s work experience is done using a point system; 100 points are required. In addition, the applicant must have at least six years of exterior wall consulting experience and a minimum of 150 continuing educational hours (CEHs) in the roofing, waterproofing, and/or exterior wall industries. Credit will be given toward this requirement for advanced degrees and professional licensing.

Although a total of five character references are required, three must be submitted from registered architects, professional engineers, RRCs, RWCs, and/or REWCs. A satisfactory score on an exam is required after application approval.

The REWC exam is available in computer-based format at conveniently located Scantron testing centers.

**Fees**

The fees for REWC applicants are shown on page 33.

**The REWC Exam**

Candidates will have up to four hours to complete the exam. Sixty multiple-choice questions will test knowledge of exterior wall systems in the following areas: design, materials, investigations, codes and standards, testing, and installation and repair. Some problems may involve mathematical computations that require familiarity with basic algebra, geometry, and trigonometry. Scientific calculators and reference materials will be provided within the exam.

**Renewal Policy**

Renewal requirements are listed on page 33 under Registration Renewal Policy.

With the expansion of IIBEC’s focus from roofing to the entire building enclosure, the organization saw the need for the development of a designation for exterior wall observers. Quality assurance observers monitor the construction process to assure that exterior wall projects stay in compliance with approved construction drawings, specifications, and best-practice or warranty-stipulated installation procedures.

The Registered Exterior Wall Observer (REWO) designation validates that candidates possess the knowledge, skills, and abilities required to provide impartial, informed observation and documentation while performing the duties of project observation and quality assurance related to the construction of exterior wall systems. IIBEC’s Building Enclosure Quality Assurance and its Exterior Wall Quality Assurance courses are recommended for those taking this exam.

**Requirements**

The REWO designation is offered to those who qualify through an application process and computer-based exam. Potential candidates must:

- Have two years of exterior wall systems construction experience, two years of quality assurance observation experience, or four years as an exterior wall systems technical or sales representative.
- Obtain five references, one of which must be from a professional engineer, registered architect, IIBEC Consultant member, RRC, REWC, or RWC.
- Obtain a minimum of 12 hours of continuing education within the building enclosure industry.
- Attain a satisfactory score on the computer-based exam.
In an effort to improve the overall quality of construction, IIBEC offers the Registered Roof Observer (RRO) program. The RRO title is the preferred standard of practice among quality assurance observers. IIBEC’s Roof Technology and Science I and II courses, Building Enclosure Quality Assurance, and the Rooftop Quality Assurance courses are highly recommended for those taking the RRO exam. These courses do not provide all of the information needed to pass the RRO exam but do provide important basic information.

Requirements
The successful applicant must meet the following requirements:

- Have two years of roofing construction experience, two years of quality assurance observer experience, or four years as a technical or sales representative.
- Demonstrate personal and professional ethical standards by submitting five references, one of which must be a professional engineer, registered architect, IIBEC Consultant member, or RRC.
- Obtain a minimum of 12 hours of continuing education within the roofing industry.
- Attain a satisfactory score on the examination.

Fees
The fees for RRO applicants are shown on page 33.

RRO Exam
Once an application has been approved, the candidate must achieve a satisfactory score on the examination, which is tailored neither to any one particular area of roof observation nor to the design and construction practices unique to any geographic area. The exam deals primarily with roof observations in general. It is computer based and is up to three hours long. It may include all phases of roof observations (methodology and construction), both steep- and low-slope roofing, and all systems (shingle, tile, slate, built-up, single-ply, wood, metal, and spray-applied foam).

In order to receive a passing score on the examination, the examinee must be thoroughly familiar with the basic methodology of quality assurance observation and have a broad knowledge of ethics, roof systems and materials, field testing, reporting, safe work practices, roles and responsibilities, and construction documents.

Renewal Policy
Renewal requirements are listed on page 33 under Registration Renewal Policy.
The Certified Building Enclosure Commissioning Provider (CBECxP®) has been developed by IIBEC in accordance with ISO 17024 accreditation standards. This certification is awarded to individuals who conduct all tasks required to carry out a comprehensive and complete building enclosure commissioning process. The certification is not limited to specific sizes of buildings or certain building use; it applies to building enclosure commissioning of all buildings.

Visit iibec.org for updates.

REGISTRATION PROGRAM FEES

The fees for applicants for all Registrations, regardless of designation, are as follows:

<table>
<thead>
<tr>
<th>Application fee:</th>
<th>Exam fee:</th>
</tr>
</thead>
<tbody>
<tr>
<td>- $350 for IIBEC members</td>
<td>- $250 for IIBEC members</td>
</tr>
<tr>
<td>- $425 for nonmembers</td>
<td>- $325 for nonmembers</td>
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REGISTRATION RENEWAL POLICY

Each IIBEC registration must be renewed annually. Renewal for the REWO and RRO credentials require 10 continuing education hours (CEHs), and the RRC, REWC, and RWC credentials require 12 CEHs in the roofing, waterproofing, and/or exterior wall industries. Payment of the $175 renewal fee ($250 for nonmembers) is also required. A maximum of 50% beyond the annually required CEHs may be carried forward and used toward the registration renewals for the following year only.

To maintain the RBEC designation, the individual renewal fees for the RRC, RWC, and REWC registrations must be paid. The RBEC credential may be listed in combination with the individual consultant designations or by itself, which offers a discounted renewal fee. Renewal of the RBEC requires 15 CEHs which have been earned from a combination of roofing, waterproofing, and exterior wall courses.

It is possible to earn all renewal CEHs at the annual IIBEC convention.

CERTIFICATION PROGRAMS

CERTIFIED BUILDING ENCLOSURE COMMISSIONING PROVIDER PROGRAM

The Certified Building Enclosure Commissioning Provider (CBECxP®) has been developed by IIBEC in accordance with ISO 17024 accreditation standards. This certification is awarded to individuals who conduct all tasks required to carry out a comprehensive and complete building enclosure commissioning process. The certification is not limited to specific sizes of buildings or certain building use; it applies to building enclosure commissioning of all buildings.

Visit iibec.org for updates.
IIBEC offers a wide variety of educational offerings throughout the year covering all segments of the building enclosure. Education courses and webinars provide learners with the latest technology and industry best practices and are offered in multiple formats. Courses and webinars are taught by IIBEC professional staff or field professionals or IIBEC volunteers with years of experience and a wealth of expertise. Courses are available in three formats: on-site or in-person delivered by one of our many chapters; online delivery as a live or recorded e-learning courses or webinars; and contract courses.

IIBEC’s educational programs have earned an industry-wide reputation for offering top-quality, comprehensive building enclosure education. Designed to provide individuals of differing backgrounds with relevant information about roofing, waterproofing, and building enclosure technology and design issues, IIBEC’s educational programs vary in intensity, from basic concepts to advanced specific application principles and theory.

Answering the need to establish a standard of qualifications and practice in an unregulated industry, IIBEC developed a professional registration program (see pages 18-22). Although they are recommended, all courses in this catalog are not intended to be preparatory for registration or certification exams. In the description of each course you will find information indicating whether the course is recommended to be taken when working toward a professional registration. All IIBEC courses are approved for IIBEC continuing education hours (CEHs), American Institute of Architects (AIA) learning units (LUs), and AIA Health, Safety, and Welfare Credit.

Please contact Kristen Kennedy, Director of Education at kkennedy@iibec.org for more information about IIBEC’s educational offerings or visit our website at iibec.org/Education.

We make it easy to stay at the top of your field and keep up with continuing education with a wide selection of online courses and webinars on a variety of trending topics. These educational offerings allow you to earn continuing education hours at your convenience. Learners have one-year from the date of purchase to view the education offering and earn their credit.

IIBEC is the authoritative voice and resource for roofing, waterproofing, and exterior wall specification and design, and our classroom courses provide individuals of differing backgrounds with relevant and trending topics in the field. Continuing your education and achieving an IIBEC designation is the right step in your career, and we are here to provide you with the education you need to be successful within the profession.

Contract with us to host a course either virtually or at your facility and on your schedule. Save on travel and hotel expenses and get the customized experience for your organization that meets your specific needs.
IIBEC COURSES

Architectural Sheet Metal Flashing Design
Architectural Sheet Metal Flashing Design is a course related to design, assessment, and detailing. Topics covered include material selection, attachment, joinery, expansion joint detailing, fabrication tolerances, drainage assemblies, and penetration flashings. Within sheet metal joinery, the subjects of proper soldering techniques, proper solder repair procedures, as well as application of specific metal joinery types are developed fully. The course will communicate the fundamentals and more advanced topics suitable for architects, engineers, and building enclosure consulting professionals. (Recommended for RRC® • Recommended for RRO®)

8 CEHs • AIA LUs

Building Enclosure Quality Assurance
Building Enclosure Quality Assurance is a course for professionals interested in field inspections and quality of applications, including material manufacturers, general contractors, quality assurance observers, and field inspectors. This course covers the diverse and challenging aspects of roofing, waterproofing, and exterior walls encountered in the field. Highlights of the course include the role and responsibilities of the quality observer, contract administration, and construction contract documents.
(Recommended for RRO® • Recommended for REWO®)

8 CEHs • AIA LUs

Exterior Concrete Wall Systems
This course is the first specific exterior wall course that builds upon the fundamentals presented in Exterior Walls Technology and Science. The purpose of the course is to provide an in-depth understanding of exterior concrete wall systems that serve as part of the building enclosure system. This course will cover properties of concrete materials that affect their use in building enclosures, applicable codes and standards, design and construction requirements, and evaluating, repairing, and maintaining exterior concrete walls.
(Recommended for REWC®)

16 CEHs • AIA LUs

Exterior Wall Quality Assurance
Exterior Wall Quality Assurance is a course for professionals interested in performing observation to assure that exterior wall systems are installed in accordance with construction documents. The program covers diverse topics in the construction of exterior walls, and is intended for manufacturers, general contractors, quality assurance observers, and field inspectors. (Recommended for REWO®)

16 CEHs • AIA LUs

Exterior Wall Technology and Science
This course provides basic exterior wall technology and terminology that will be used as the fundamental base for additional exterior wall course offerings. The course covers a broad range of topics, including types and function of exterior walls, psychrometrics and moisture movement, design objectives and building code requirements, wall penetrations, materials, coatings and water repellants, and sealants. This course is aimed at those preparing to expand their knowledge into exterior walls and at those already practicing in this area who want to further develop their knowledge in exterior wall technology. (Recommended for REWC®)

16 CEHs • AIA LUs
**EDUCATION PROGRAMS**

**IIBEC COURSES**

**Historic Preservation**
This seminar is intended to provide a general overview of the evolution, evaluation and restoration of historic buildings. The seminar will include a historical overview, philosophical background, evaluation methodology, review of applicable materials, repair and maintenance approaches, and case studies. *This course is offered on our online learning platform.

12 CEHs • AIA LUs

**Masonry Wall Systems**
This course is the second specific exterior wall course that builds upon the fundamentals presented in Exterior Wall Technology and Science. The purpose of this course is to provide an in-depth understanding of masonry wall systems as they are designed as part of the building enclosure system. Highlights of this program include materials and their properties, masonry accessories, applicable design codes and standards, design and construction requirements, evaluating and repairing masonry wall problems, and maintaining masonry walls. *(Recommended for REWC®)*

12 CEHs • AIA LUs

**Metal Roofing**
Metal has unique properties that separate it from other roof choices. For over three millennia, metal roofing has been a durable, aesthetically appealing design element utilized for significant buildings. When corrugated metal roofing was introduced in the late 19th century, it became a welcome economical, fire-resistant roofing option. Metal roofing continues to evolve with technological advances in alloys, coatings, and the use of “floating” standing-seam roof panels. Course content is intended to provide attendees with a comprehensive understanding of metal roofing. *(Recommended for RRC® • Recommended for RRO®)*

16 CEHs • AIA LUs

**Professional Building Consulting**
This course is an extension of the *IIBEC Manual of Practice*. It provides an overview of consultant roles that are unique to the roofing, exterior wall, and waterproofing industry. The course also identifies the consultant practices that are common to these three broad disciplines. The course examines building enclosure consultants and discusses what they do and how they do it and is a recommended foundation course for becoming more specialized. *This course is offered on our online learning platform.* *(Recommended for RRC® • Recommended for REWC® • Recommended for RWC®)*

16 CEHs • AIA LUs

**Roof System Thermal and Moisture Design**
Consultants or industry members who want to develop more in-depth thermal and moisture design skills will want to take this course. The content moves quickly beyond basic thermal terminology and calculations to cooling-load calculations, annual energy consumption and payback calculations, cool roofing, and temperature calculations within cross sections. Moisture starts with the psychrometric chart and moist-air properties. Additional topics include vapor retarders, the effects of moisture on insulation, air barriers, and mold issues. *(Recommended for RRC®)*

8 CEHs • AIA LUs
IIBEC COURSES

**Roof Technology and Science I**
This course is the first component of a two-part series covering, in detail, aspects of the technology and science of roofing. The course covers the history and evolution of roofing up to present-day common applications. The course features terminology and technical information regarding roof decks and structures, roof insulation, bitumen membranes, built-up and modified-bitumen membranes, and flashing systems. An understanding of heat transfer theory, moisture, thermal design, and the calculation of U-factors will also be presented. *This course is offered on our online learning platform. (Recommended for RRC® • Recommended for RRO®)

**Roof Technology and Science II**
This is the second course of a two-part series covering, in detail, aspects of the technology and science of roofing. Highlights of the program include fundamentals of single-ply, polyurethane foam, and PMR roof systems; basic concepts and terminology of metal roofing; steep roof design and installation of asphalt shingles, tiles, and wood shakes and shingles; building codes; fire testing/ratings of roofing; and a basic understanding of wind interaction upon roofing. *This course is offered on our online learning platform. (Recommended for RRC® • Recommended for RRO®)

**Roof System Thermal and Moisture Design**
This course is designed for those who design roof systems and for those who need to understand roofing heat transfer and moisture effects on roofing systems. The skills taught in this course are of use to all those involved in roof performance and are necessary skills for the RRC. The principles taught have applicability to walls as well as roofs, but the primary focus is on roof systems. *This course is offered on our online learning platform. (Recommended for RRC®)

**Rooftop Quality Assurance**
Rooftop Quality Assurance is a course for professionals interested in performing observation to help assure that roof installation is consistent with construction documents. The program covers the diverse and challenging aspects of roofing as encountered in the field and is ideal for roofing material manufacturers, general contractors, quality assurance observers, and field inspectors. Course participants will receive objective and detailed information regarding the duties of the roof quality observer. *This course is offered on our online learning platform. (Recommended for RRO®)

**RRC Review and Update**
This course is structured for those who have already passed the RRC exam and want a review of skills and to be updated with new information, and those who have the necessary tools to complete the RRC registration exam and desire a quick brush-up on technical topics as a review. Covered during the program: wind design, including ASCE 7 and FM Global requirements; thermal calculations; CSI changes; green roofing principles; and roof asset management (RAM) calculations. Updated information is provided in all areas. *This course is offered on our online learning platform. (Recommended for RRC®)
IIBEC COURSES

Stucco and Exterior Finish Cladding Systems
The Stucco and Exterior Finish Cladding Systems course is the third specific exterior wall course that builds on the fundamentals presented in Exterior Walls and Science. The purpose of the course is to provide essential information on material properties, design principles, evaluation techniques, and repair methods for stucco and EIFS. Topics covered in this course include sound transmission, thermal bridging, coatings, testing methods, and the various codes and standards impacting stucco and EIFS systems. (Recommended for REWC®)

12 CEHs • AIA LUs

Vegetative Roofing for the Design Professional
This course is structured for those who design vegetative green roofs or who are responsible for correcting vegetative green roof thermal or moisture protection performance problems. Vegetative green roof design is a technically demanding and evolving growth industry. This course provides guidance in the areas of design criteria, system selection, reference standards, and flashing principles, it discusses the influences of Factory Mutual, ASTM, GRHC, and NRCA publications and guidelines. (Recommended for RRC® • Recommended for RWC® • Recommended for RRO®)

8 CEHs • AIA LUs

Waterproofing
The course is designed for the practicing consultant and those who are aspiring to become Registered Waterproofing Consultants. This course focuses on split-slab deck systems, surface-applied waterproofing, and below-grade waterproofing. The course starts with a review of differences among roofing, dampproofing, and waterproofing. (Recommended for RWC®)

16 CEHs • AIA LUs

IIBEC Membership Directory
Each IIBEC member is automatically listed on the IIBEC International Member Directory, a public search feature that attracts thousands of potential clients each year. This listing provides excellent industry visibility and exposure for IIBEC members seeking to expand their client base and professional network. IIBEC staff consistently refer building owners, facility managers, and other interested individuals to the member directory to find qualified IIBEC members in their area.

The directory can be found at: https://iibec.org/membership/search.
This book collects all four parts—published individually in various issues of Interface in 2019 and 2020—into one convenient collection.

“No matter how tough times get, the business of construction litigation seems to go full steam ahead.”

Print Edition: IIBEC Member $25.00  Nonmember $35.00
Digital Edition: IIBEC Member $20.00  Nonmember $30.00

“This monograph has been written as a textbook to serve all three disciplines—architecture, plumbing engineering, and structural engineering,” said Dr. Mehta. “We have learned a great deal since the 2003 publication and have incorporated it into this book.”

Print Edition: IIBEC Member $75.00  Nonmember $95.00
Digital Edition: IIBEC Member $59.00  Nonmember $79.00

The Manual of Practice is designed to be a standard for practitioners performing roof, exterior wall, and waterproofing consulting and quality assurance functions.

Print Edition: IIBEC Member $399.00  Nonmember $459.00
Digital Edition: IIBEC Member $349.00  Nonmember $429.00
BACK IN THE SADDLE

2021 FOUNDATIONS’ ANNUAL FUNDRAISER

Saturday, September 18
5:30 PM – 7:30 PM

Phoenix Ballroom
A, B & C - 3rd Level
Sheraton Phoenix Downtown
Phoenix, AZ

Silent & Live Auctions • Door Prizes • Raffle

Sponsored by GAF
IIBEC’s International Convention and Trade Show provides a forum for professionals who share a common goal of sustaining the highest standards and a desire to learn from one another. It provides an opportunity to explore current products and technologies; exchange ideas, solutions, insights, and information; attend cutting-edge educational sessions; and learn from renowned experts.

Attendees broaden and enhance their awareness of the industry and develop close working relationships with peers and vendors. Participants add value to the services they provide their customers by attending IIBEC’s convention. Industry leaders, large and small, display their products and answer technical questions. The latest in industry research and practices is presented in technical seminars, where attendees may ask questions and earn continuing educational hours (CEHs).

Other events include administrative and committee meetings to determine IIBEC’s future direction, auxiliary seminars, live product demonstrations, a golf tournament, regional meetings, an awards luncheon, and a celebratory banquet with entertainment. Phoenix’s lush desert landscapes give way to an inviting and revitalizing city. Hiking trails, iconic sunsets, a vibrant downtown, and award-winning cuisine await you.
In 2022, IIBEC’s International Convention and Trade Show will take place in Orlando, Florida. Plan to join us to explore current products and technologies; exchange ideas, solutions, insights, and information; attend cutting-edge educational sessions; and learn from renowned experts.

Region / Chapter Meetings

IIBEC’s regions and chapters have periodic meetings that include substantial educational components. Speakers include experts in various aspects of roofing, waterproofing, and exterior walls, as well as industry representatives explaining their products. Continuing education hours are available for approved technical educational programs. See individual chapter websites (pages 15–20) for up-to-date information, as well as monthly chapter news on IIBEC’s Newsfeed at iibec.org.

Look for more information in upcoming issues of IIBEC Interface and online at iibec.org.
For additional information about attending the convention or exhibiting in the trade show, contact IIBEC headquarters at 800-828-1902 or 919-859-0742.
**Interface**

The Technical Journal of the International Institute of Building Enclosure Consultants

**IIBEC Interface**

IIBEC Interface, the association’s technical journal, is published eleven times a year. The journal is full of technical articles, industry events, professional and business development tips, and other information of interest to its readers. In addition to IIBEC’s membership, who receive the publication free of charge, **IIBEC Interface** is distributed to industry contacts; to highly placed professionals and influential people worldwide; and at trade shows, seminars, and meetings throughout the U.S. and Canada. Additional subscriptions may be purchased online at iibec.org.

The journal’s high-quality technical articles are reviewed by a peer committee of professionals who volunteer their time and expertise to the process. Members and industry professionals are urged to contribute articles for publication. **IIBEC Interface** aims to keep readers up to date with industry changes; to provide a forum for exchange of ideas and technical knowledge; to promote IIBEC and its membership; and to connect with all elements of the roofing, waterproofing, and exterior wall industry, establishing a common ground for ongoing dialogue.

Advertisements in **IIBEC Interface** are placed on a first-come, first-served basis. Contact Chris Barnes at cbarnes@iibec.org or 919-859-0742 for additional information.

Adjacent is a schedule of **IIBEC Interface**’s upcoming theme issues. Articles on any topic, however, are encouraged at any time. Project profiles are especially welcome.

For information on how to submit an article or for possible changes in the **IIBEC Interface** schedule, contact Technical Editor Emily Lorenz at elorenz@iibec.org or 919-859-0742.

**IIBEC Interface**’s digital presence was launched in December 2016. An e-mail previewing the print version and including a link to a digital flipbook of the latest issue is sent out monthly. Members can read the journal on their computers or digital devices—even on top of a roof or on a below-grade waterproofing site.

The Digital **IIBEC Interface** may also be accessed at iibec.org. Choose “Publications,” hover over “IIBEC Interface Technical Journal,” and see the option for “IIBEC Interface Digital Edition.” Scroll down and choose an issue. Once members have signed in for the first time (the member’s e-mail is the login, and his or her member number is the password), they can click through the issue. Print, crop, share, search, archive, bookmark, and jump immediately to linked authors and advertisers. Nonmembers may purchase digital issues for $10 each.

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**SUBMISSION** | **ISSUE THEME** | **EDITORIAL DEADLINE**
--- | --- | ---
October 2021 | Waterproofing | August 15, 2021
November 2021 | Convention Issue | September 1, 2021
January 2022 | Fenestration | November 1, 2021
February 2022 | Testing | December 1, 2021
March 2022 | The Building Enclosure | January 2, 2022
April 2022 | Sustainability | February 1, 2022
May/June 2022 | Convention Issue | March 1, 2022
July 2022 | Roofing | May 1, 2022
August 2022 | Waterproofing/Damproofing | June 1, 2022
September 2022 | The Building Enclosure | July 1, 2022
October 2022 | Codes & Standards | August 1, 2022
November 2022 | Design of Cavity Walls | September 1, 2022
December 2022 | Technology | October 1, 2022

*Subject to change without notice*
IIBEC is well known as a valuable source of information for the industry. As a means to that end, the association maintains a website to serve as a vehicle for the distribution of information. The website, iibec.org, provides members with detailed information about benefits, continuing education, and association events.

Additionally, it provides the general public with an understanding of IIBEC’s mission and its role within the building enclosure industry. Potential clients of professional services can search the online database for IIBEC members in their area or across the globe. The site includes information on the following:

- Member services and how to join
- Registration programs
- Association and industry news
- The IIBEC marketplace
- Calendar of events
- How to contact IIBEC
- Education

Regular visits to the IIBEC website can help members maximize the value of their association with IIBEC. Individuals can sign up for classes and events, download and submit applications to start the process of earning credentials, or submit continuing educational hours toward a registration.

Archived IIBEC Interface, convention, and building enclosure symposium technical articles may also be downloaded free at https://iibec.org/hub/tech-library/.

**NEWSFEED, SOCIAL MEDIA, AND E-MAILS**

**Newsfeed**

The IIBEC Newsfeed offers a continuous listing of association and industry news, member profiles, and chapter news. Check out the News and Press link at the top of the page at iibec.org anytime and read about what’s happening to members, IIBEC chapters, and the organization’s various committees. Learn about upcoming events, industry news of interest, and how to be more involved with the association. Read the latest IIBEC Interface highlight article and President’s Message. Search for specific news topics through the search icon at the top of each page.

**E-mails**

IIBEC communicates with its members, the industry, and the media via e-mail, including monthly notices of the digital version of IIBEC Interface, as well as periodical press releases, weekly newsletters, and important notices.

**Social Media**

IIBEC has greatly expanded its online social media presence. Read about and discuss what’s going on in the building enclosure consulting field on IIBEC’s official social media pages:

- Twitter  
  twitter.com/IIBEC2020
- Facebook  
  www.facebook.com/IIBEC2020
- LinkedIn  
  www.linkedin.com/company/iibec2020
OPPORTUNITIES FOR OUTREACH

IIBEC is a professional association serving the needs of more than 3,500 members from across the globe (primarily in North America). Members of IIBEC make up one of the most influential demographics in the building industry. The association’s members specify billions of dollars of roofing, waterproofing, and exterior wall products each year.

Whether it’s to coordinate a reroofing project, to design a new roof, or to solve a waterproofing or exterior wall issue, IIBEC members are called upon by building executives to offer their expertise for specification, design, and quality assurance.

IIBEC members are considered by many to be the industry’s elite experts. They purposefully maintain a working knowledge of available technology and actively seek information regarding new and innovative products.

Marketing through IIBEC is the surest means to gain access to this specific demographic.

To access detailed information regarding the opportunities below, visit https://iibec.org/advertising-opportunities/.

Print-Based Marketing
• IIBEC Interface technical journal

Digital Marketing
• IIBEC website banner advertising
• IIBEC Newsfeed banner advertising
• Digital IIBEC Interface e-mail banner advertising
• Employee recruitment advertising

In-Person Marketing and Relationship-Building Opportunities
• International Convention and Trade Show
  — Exhibitors
  — Sponsorships
  — Live product demonstrations
  — Mobile device app banner advertising and push notifications (when available)
  — Event program advertising
  — Educational proceedings publication advertising
  — Attendee tote bag promotional item insertion/stuffer
• ICBEST
  — Exhibitors
  — Sponsorships
  — Educational proceedings publication advertising
• IIBEC Building Enclosure Symposium
  — Exhibitors
  — Sponsorships
  — Educational proceedings publication advertising
• Board Meetings
  — Executive Committee meeting sponsorships
  — Board of Directors meeting sponsorships
• Regional and metro-area chapter meetings (contact local chapters for sponsorships)
  — Exhibits
  — Golf outing sponsorships

For more information, contact Director of Marketing and Sales Chris Barnes at cbarnes@iibec.org or at 800-828-1902.
The RCI-IIBEC Foundation was established in 2001. Its mission is to support research, education, and the dissemination of information for issues important to the building enclosure industry. The Foundation Board of Directors is responsible for raising, stewarding, and allocating funds for programs and projects that meet the Foundation’s mission. Its members represent professionals engaged in construction, consulting, design, education, manufacturing, research, and industry standards.

Recent Foundation-funded activities include:

- Contributing to research and testing of adhered masonry in collaboration with the Thin Masonry Consortium. The research project is working with Portland State University seismic research laboratory to produce an independent third party structural engineer’s report for various wall assemblies which will quantify allowable adhered masonry heights according to seismic codes.
- Funding the second edition of the Roof Drainage monograph. The publication was authored by IIBEC member Stephen Patterson, RRC, PE, and Madan Mehta, PhD, PE, from the University of Texas – Arlington.
- Collaborating with the IIBEC Education Committee to present Launching a Career as a Building Enclosure Consultant panel. The goal of this course is to introduce university students to a variety of IIBEC-member projects and provide an overview of career possibilities in the industry.
- Funding research at Virginia Tech on thermal bridging via roof fasteners in collaboration with GAF and Simpson Gumpertz & Hager, Inc.
- Holding a special recognition event with The Foundation Board in Max Meadows, Virginia, the location of a new library named the Joe Hale Public Library of Fort Chiswell. The U.S. and Canadian Foundations and donors contributed over $82,555 to help establish the library in honor of long-time Foundation Chair and IIBEC member, Joe Hale.
- Sending over 152 college students to the IIBEC International Convention and Trade Show. Many of these students now have careers in the building enclosure industry.
- Publishing a revision of Wind Loads on Low-Slope Roofs, based on ASCE 7-16 standards.
- Establishing the Robert W. Lyons and Lewis W. Newlan scholarship funds. These needs-based scholarships support undergraduate and graduate students studying engineering, architecture, construction, or building sciences. To date, the Foundation has given out $95,000 in scholarships.

To learn more about the many research projects and publications funded by the Foundation, visit https://rci-iibecfoundation.org/.

The Board is continually identifying educational and research areas in roofing, waterproofing, and exterior wall systems that require
The U.S. and Canadian Foundations and donors contributed over $82,555 to help establish the library in honor of long-time Foundation Chair and IIBEC member, Joe Hale. Pictured from left to right: (back row) Earle Libby, Vice President, Friends of Fort Chiswell Library Board; Frances Watson, Friends of Fort Chiswell Library Board; Tina Queenberry – Friends of Fort Chiswell Library Board; Sid Hankins, RCI-IIBEC Foundation Treasurer; Brian Pallach, IIBEC CEO and Executive Vice President. (Front row) Patsy Hale and Joe Hale.

RCI FOUNDATION CANADA

The RCI Foundation Canada (RCIF Canada) received its charity status from Revenue Canada in 2010. This entity runs parallel to the RCI-IIBEC Foundation in the United States. The mission of RCIF Canada is to support research, education, and disseminating information on issues related to building practices. For more information on RCIF Canada, to make a donation, or to request funding, visit www.rcifoundation.ca.

Foundation-funded activities include:
- Collaborating with the National Research Council of Canada and the Canadian IIBEC chapters to present the Canadian Virtual Building Science Insight Presentation.
- Providing scholarships for five students to attend the first-ever Canadian Building Envelope Symposium in Mississauga, Ontario.
- Supporting the National Research Council of Canada’s field investigation into the feasibility of the Portable Wind Uplift Apparatus (PWUA) to determine in-situ roof uplift resistance.

THE MISSION

To support research, education, and the dissemination of information for issues important to the building enclosure industry.

Further development. The Foundation carefully reviews and awards grants to support research and publication of results. The Foundation is always open to grant proposal requests.

The Foundation is funded solely by individual and corporate donations. To make a donation and to be part of the future of our industry, contact Development Officer Rick Gardner at 800-828-1902, 919-859-0742, or rgardner@iibec.org; or mail your donation to RCI-IIBEC Foundation, 434 Fayetteville St., Suite 2400, Raleigh, NC 27601.

RCI Foundation Canada funded research for National Research Council of Canada’s field testing of an investigation into the ability of the Portable Wind Uplift Apparatus (PWUA) to determine in-situ roof uplift resistance.

- Funding Canadian students to attend the IIBEC International Convention and Trade Show annually.
- Contributing regularly to humanitarian organizations across Canada, including the Salvation Army for their relief efforts during times of natural disasters.

RCIF Canada is funded solely by individual and corporate donations. To make a donation, please mail your check to RCI Foundation Canada, c/o Stocking & Cumming, #2-9124 Glover Road, P.O. Box 8 Stn Fort Langley, Langley, British Columbia V1M 2R4 Canada.
The RCI-IIBEC Foundation is designated as a 501(c)(3) tax-exempt entity by the IRS. Contributions received from U.S. taxpayers may be tax-deductible. Contributions from corporations may be deductible as a business expense. The RCI Foundation Canada is recognized by the Canada Revenue Agency as a registered charity. Contributions received from Canadian taxpayers may be tax-deductible; we recommend you consult with your tax advisor if you have questions. For information on all registered charities in Canada under the Income Tax Act, please visit the Canada Revenue Agency, www.cra.gc.ca/charities.

University of Kentucky students sponsored by Foundation funds to attend the 2019 IIBEC Building Enclosure Symposium in Kentucky. Left to right: Immediate Past IIBEC President Scott Hinesley, Professor Bruce Swetnam, Alex Boose, Joe Holliday, Omolade Akinremi, Professor Dan Vivian, IIBEC Foundations Development Officer Rick Gardner, Frank Wang, Montreale Jones, Bryson Watson, Alan Haml facult, Dylan Brewer, and IIBEC Past President Bob Card. (Not pictured: Mary Kate Schaefer and Afif Alahmad.)

WAYS TO SUPPORT THE FOUNDATIONS

First, support the Foundation and its work through a monetary donation. Second, bring the Board of Directors grant requests, ongoing projects, or ideas for projects that support the Foundation’s mission of advancing research, education, and knowledge sharing on issues important to the building enclosure industry. Third, encourage your network to support and participate in the Foundation’s programs, such as student scholarships, convention sponsorships, the Amazon Smile program (U.S. only), Giving Tuesday, and participation at the annual auction at the IIBEC convention.

CONTRIBUTION LEVELS

RCI-IIBEC Foundation and RCI Foundation Canada

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<th>Level</th>
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<td>Cornerstone Society</td>
<td>$150,000 or more</td>
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<td>Benefactor</td>
<td>$50,000 - $149,999</td>
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<td>Patron</td>
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IIBEC Interface Digital Edition

The IIBEC Interface digital edition gives readers handy access to the same industry-leading content found in the printed version, with the added benefit of being able to read it on your phone, tablet, laptop, or computer.

Current IIBEC members can access full digital-format editions of IIBEC Interface via the IIBEC website.
RCI-IIBEC FOUNDATION BOARD OF DIRECTORS

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**LIFETIME ACHIEVEMENT AWARD**

The Lifetime Achievement Award was presented for the first time in 2011 and is awarded to those individuals who have provided a lifetime of extraordinary service and contributions to the success of the International Institute of Building Enclosure Consultants.

The first award was granted in 2011 to Joe Hale, F-IIBEC, for his numerous contributions to the success of IIBEC. Hale, a past president of IIBEC and longtime chairman of the RCI-IIBEC Foundation, was called the organization’s “visionary and historian.”

In 2014, Lyle Hogan, RRC, F-IIBEC, PE, was granted the Lifetime Achievement Award for his 22-plus years as technical and senior editor of *IIBEC Interface* magazine.

Richard “Dick” Fricklas received the award in 2014 for a lifetime of contributions to the education of roofing professionals.

In 2016, Robert “Bob” Lyons, F-IIBEC, was presented the award for his vision, dedication, and drive toward bringing IIBEC into existence.

In 2017, Michael D. Blanchette, F-IIBEC, RRC, RRO, was honored for a lifetime of dedication to the support and promotion of IIBEC.

David R. Hawn, F-IIBEC, RRC, CEM, was granted the award in 2018 for his tireless voluminous career-long contributions to IIBEC.

In 2019, Philip D. Dregger, F-IIBEC, RRC, PE, was honored for his career contributions to the industry and to IIBEC.

Gerard “Jerry” Teitsma, F-IIBEC, RRC, RRO, CCCA, was presented with the award in 2019 for his outstanding educational contributions to the industry.

In 2020, IIBEC presented the award to two recipients. Richard “Dick” Canon, F-IIBEC, RRC, PE, was presented with the award for a lifetime of service to IIBEC and to the building enclosure industry.

Walter J. Rossiter, Jr., PhD received the award for his nearly 15 years of service within IIBEC’s technical services department.

**RICHARD M. HOROWITZ AWARD**

In 1995, IIBEC lost one of its most popular and dedicated members, past president Richard M. “Dick” Horowitz, RRC, F-IIBEC. Horowitz was a driving force behind IIBEC’s RRC exam and its technical journal, *IIBEC Interface*. In 1996, IIBEC named an award for the best technical article published in *IIBEC Interface* after its favorite wordsmith. Recipients have been:

- Colin Murphy, RRC, F-IIBEC (1996)
- Lyle D. Hogan, RRC, F-IIBEC, PE (1997)
- Charles “Chuck” Marvin, RRC (1998)
- Gerard J. Teitsma, F-IIBEC, RRC, RRO, CCCA (1999)
- Robert Haddock (2000)
- Steven Murray (2001)
- Raymond L. Corbin &
- Donald Kilpatrick (2004)
- Kamran Farahmandpour, RRC, RWC, PE, CCS (2005)
- Karl Schaack, RRC, PE (2007)
- Matthew C. Farmer, PE (2009)
- Lyle D. Hogan, RRC, F-IIBEC, PE (2010)
- David Campbell, RWC, AIA (2011)
- Justin Henshell, FAIA, FASTM, & Paul Buccellato, RWC, FASTM, AIA (2012)
- Sarah Flock, AIA; & Garth Hall, AIA (2013)
- Scott Wood (2014)
- Karl Schaack, RRC, PE (2015)
- Rick Ziegler, RRO, PE; & Clark Denson, PE, CEM, BEMP (2016)
- Patrick J. Conway (2017)
- Kip Gatto, PE, SE; & Grace Wong, PE, RA, LEED AP BD+C (2018)
- Todd Skopic, CDT, LEED AP (2019)
- Mary Arntzen, PE (2020)
- Derek McCowan, PE (2020)

**HERBERT BUSCHING AWARD**

In 1994, the IIBEC Executive Committee established the Dr. Herbert Busching Award after the late Clemson University professor and engineer. Busching was a dedicated early member of IIBEC and the first chairman of the IIBEC Board of Regents. Recipients of this award are “people who have contributed to the research, standards, and education of the roofing, waterproofing, and/or exterior wall industries.” The award is presented at the discretion of the Jury of Fellows. Recipients have been the following:

- William C. Correll, AIA, F-IIBEC (1994)
- Richard Canon, PE, RRC, F-IIBEC (1996)
- Colin Murphy, RRC, F-IIBEC (1998)
- Michael Blanchette, RRC, RRO, F-IIBEC (2000)
- Joe Hale, F-IIBEC (2001)
- Donald E. Bush Sr., RRC, F-IIBEC (2004)
- Gerard Teitsma, F-IIBEC, RRC, RRO, CCCA (2009)
- Appupillai “Bas” Baskaran, PhD, PE (2014)
- André Desjarlais, FASTM (2014)
- Walter Rossiter (2014)
- Wanda Edwards, PE (2017)
MICHAEL DeFRANCESCO AWARD

The Michael DeFrancesco Volunteer of the Year Award was created in honor of the late Michael DeFrancesco, whose enthusiasm, dedication to IIBEC, and general zest for life were an inspiration to all who knew him. Recipients have been the following:

- William Cypher, F-IIBEC, RRC (2005)
- Olan H. Lewis (2007)
- John D. Shepherd, RRC, PE (2008)
- Donald Bush Sr., RRC, F-IIBEC (2009)
- Alan Spait, PE, CCMP (2010)
- Dale Purvis, RRC, RRO, CDT, LEED AP (2011)
- William Waterston, RRC, AIA (2012)
- Brian Gardiner, F-IIBEC, RRC, CCS (2013)
- Russell A. Raymond, RRC, REWC, RRO, CDT (2014)
- Katharine Spavins (2016)
- Jonathan Cannon, RRC, RRO, CDT (2017)
- Jerry Abendroth, RBEC, RRO, CDT (2018)
- Brian R. “Rick” Craig, F-IIBEC, RRC, RRO (2019)
- Kenrick J. Hartman, RRC, RWC, REWC, RBEC, PE, LEED AP BD+C (2020)

WILLIAM C. CORRELL AWARD

The William C. Correll Award honors IIBEC pioneer and first executive director, William C. Correll Sr., F-IIBEC, AIA. It is presented at the discretion of the Jury of Fellows to “people who have demonstrated a high degree of professionalism, leadership, ethics, unselfish dedication, or significant contribution to the growth and recognition of IIBEC.” Awardees are:

- Justin Henshell, FAIA, FASTM (2008)
- Richard Fricklas (2009)
- Kristen Ammerman (2014)
- Lyle D. Hogan, F-IIBEC, RRC, PE (2014)
- Albert Duwyn, F-IIBEC, RRC (2017)
- Patrick L. Downey, F-IIBEC, RRC, CCCA (2018)
- Micki Kamszlik (2018)
- Brian Gardiner, F-IIBEC, RRC, CCS (2019)
- Richard Wagner, RRC, CCS (2019)
- Karen McElroy (2020)
- Brian “Rick” Craig, F-IIBEC, RRC, RRO (2020)

JOSHUA J. SUMMERS OUTSTANDING EDUCATOR AWARD

Formerly named the Outstanding Educator Award, in 2020, IIBEC renamed this prestigious award in memory of longtime IIBEC Education Committee Chair Joshua J. Summers, REWC, SE, PE. This award is presented to IIBEC members in recognition for their consistent outstanding delivery of IIBEC courses. Recipients have been the following:

- Alan Spait, PE (2013)
- Kamran Farahmandpour, F-IIBEC, RRC, RWC, REWC, RBEC, PE, CCS, CCCA (2013)
- Raymond C. Wetherholt, F-IIBEC, RRC, RWC, REWC, RBEC, PE (2013)
- Robert D. Card, F-IIBEC, RBEC, RRC, RWC, REWC, REWO (2013)
- Gerard “Jerry” Teitsma, F-IIBEC, RRC, RRO, CCS (2013)
- Richard L. Cook, Jr., F-IIBEC, RBEC, RRC, RWC, REWC, REWO, RRO, CCS, LEED, CSR, SC ACM (2013)
- Raymond Ramos, RRC, PE (2017)
- D. Keith K. Davis, RBEC (2017)
- Patrick L. Downey, F-IIBEC, RRC, CCS (2017)
- Brian Gardiner, F-IIBEC, CCS (2017)
- Joshua J. Summers, REWC, SE, PE (2017)
- Paul Buccellato, F-IIBEC, RWC, REWC, FASTM, AIA (2018)
- Edwin L. Williams, Jr., RRC (2018)
- Jerry Abendroth, RBEC, RRO, CDT (2020)

EMERGING PROFESSIONALS AWARD

The Emerging Professionals Award was created in 2014. It is given to a young professional who has shown exceptional leadership, professionalism, and/or industry contribution at an early stage in his or her career in the field of roofing, waterproofing, and exterior wall systems. Recipients have been the following:

- Jeffrey C. Garrison, RRC, RWC, PE, CCSA, CEI (2014)
- Szymon Zienkiewicz, RRC, RRO, PE (2016)
- Kenrick Hartman, RRC, RWC, REWC, RBEC, PE, LEED AP BD+C (2017)
- Jennifer S. Hogan, RRO, LEED AP, CPHC (2018)
- Julie E. McDonald, REWC, RRC, CIT (2019)
- Jordan E. Crump, RRO, REWO (2020)
The designation of “Fellow” is an honorary title bestowed upon individuals who have demonstrated meritorious service. IIBEC, strengthened by its officers and volunteers, has recognized certain persons in this manner (see Article 17 of IIBEC’s bylaws). Recipients of the “Fellow” designation (F-IIBEC) to date are the following:

William C. Correll, AIA (1986)
Robert W. Lyons (1986)
Dr. Herbert W. Busching, PE (1987)
Richard P. Canon, RRC, PE (1987)
D.B. “Ben” Hales, RRC (1989)
George F. Kanz, RRC (1990)
Richard M. Horowitz, AIA, RRC (1990)
James E. Magowan, RRC (1991)
Donald E. Bush Sr., RRC (1992)
Joe F. Hale (1992)
Barry S. Krum (1993)
Robert Martin, RRC (1993)
Sam Huff, RRC (1994)
Lyle Hogan, RRC, PE (1994)
Arthur O. Sark, RRC (1996)
Dave H. Siple, RRC (1996)
Phil Dregger, RRC, PE (1997)
Robb Smith, RRC, RRO (1998)
Michael Blanchette, RRC, RRO (1999)
William Cypher, RRC (1999)
Matt Hitlin (2000)
James “J.P.” Sheahan, RRC (2000)
Colin Murphy, RRC (2001)
George Criel, RRC (2002)
Michael DeFrancesco, RRC (2003)
Albert Duwyn, RRC (2003)
Luther C. Mock, RRC (2005)

Helene Hardy Pierce (2005)
Thomas Hutchinson, RRC, AIA (2006)
Gary R. Cattel, RRC, PE (2007)
Patrick L. Downey, RRC, CCCA (2008)
David R. Hawn, RRC, CEM (2010)
William Rubel, RRC (2010)
Kamran Farahmandpour, RBEC, RRC, RWC, REWC, PE, CCS (2010)
Robert Elsdon, RRO (2011)
Richard L. Cook Jr., RBEC, RRC, RWC, REWC, CCS, CSRP (2012)
Raymond C. Wetherholt, RBEC, RRC, RWC, REWC (2013)
Edward L. Arnold, RRC, RWC (2014)
Richard “Dick” Fricklas (2014)
Thomas M. Gernetzke, RBEC, RRC, RWC, REWC (2014)
Dennis J. McNeil, RRC, RRO, CCS (2014)
Brian Gardiner, RRC, CCS (2015)
Brian R. “Rick” Craig, RRC, RRO (2016)
Samir Ibrahim, AIA (2016)
Jean-Guy Levaque, RRC, RRO (2016)
Robért J. Hinojosa, RBEC, RRC, RWC, REWC, RRO, PE, CDT (2017)
Gerard J. Teitsma, RRC, RRO, CCCA (2017)
Michael L. Williams, RRC, RWC, RRO (2018)
Paul Buccellato, RWC, REWC, FASTM, AIA (2018)
Michael E. Clark, RBEC, RRO, PE, CSRP, CxA+BE, BECxP (2019)
Appupillai “Bas” Baskaran, PhD, PEng (2020)
Robert D. Card, RBEC, REWO (2020)
Walter J. Rossiter Jr., PhD (2020)
“The contrast between the metal bays and traditional brick walls gives the project its rhythm and character.”

- Andreas Lange, AIA, senior associate, Perfido Weiskopf Wagstaff + Goettel

Rennen & Beecher Flats, Cincinnati
Inst.: Deuss Enterprises  Architect: Perfido Weiskopf Wagstaff + Goettel
Dist.: Allied Building Products  GC: Titan Real Estate Group  Owner: 3CDC  Photo: hortonphotoinc.com

Flush + Reveal
Metal Wall Panel Systems
Slate Gray
The 3rd edition of the *IIBEC Manual of Practice (MOP)* provides a peer-reviewed structure for the practice of consulting in the construction of the building enclosure. In simple terms, it describes what a professional consultant does and how the consultant does it. It is recognized that consultants may utilize professional judgment as the basis for modifying the procedures presented in this manual.

With over 300 pages of information, photos, graphics, and fillable forms, the MOP provides recommended best practices in all areas of building enclosure consulting, including specialized areas such as commissioning, testing, and expert witness services. New topics include drone use for roof and façade examinations, electronic leak detection for locating breaches in membranes, and whole-building air leakage testing for determining the airtightness of enclosures. Also included are procedures for construction contract administration, contract administration forms, a complete glossary of industry terms, and standards pertinent to building enclosure consulting.

This volume is a must-have for every building enclosure consultant professional’s library. Professionals who follow the practices, principles, and precepts of the MOP will provide a valuable service to their clients.
Roof Drainage, Second Edition

Authors: Stephen L. Patterson, RRC, PE; and Madan Mehta, PhD, PE

According to Patterson and Dr. Mehta, “In this edition, we are responding to an unprecedented change in roof drainage design from what has been used for more than a half century. Until recently, the plumbing codes assumed that the flow through a roof drain is the same as the flow through a vertical leader of the same diameter. Several investigations and roof-collapse forensics have shown that our assumption has been incorrect.”

“This monograph has been written as a textbook to serve all three disciplines—architecture, plumbing engineering, and structural engineering,” said Dr. Mehta. “We have learned a great deal since the 2003 publication and have incorporated it into this book.”

Anatomy of Construction Litigation

Authors: Derek Hodgin, RBEC, RRO, PE, CDT; and John Wylie, REWC, RRC, RRO, PE

Serving as an expert can be a rewarding experience that allows for a depth of research and understanding not typically provided in traditional design professional roles,” said author Derek Hodgin. “An effective expert is ultimately serving as a teacher to all parties in a case, not just the client who retained the expert.”

Chapter 1 discusses the first element of a typical construction litigation case, the identification of defects, and provides commentary based on direct involvement in numerous cases in which the authors have provided expert services to both plaintiffs and defendants. Chapter 2 discusses the preparation of a written report, providing commentary and “best practices” for a construction litigation report. Many of the recommendations would apply to other consulting fields as well. The third chapter discusses repair scope, and the fourth and final installment explains the finer points of expert testimony.
The fourth (2018) edition of this monograph is keyed to the latest edition of the ASCE/SEI publication: Minimum Design Loads and Associated Criteria for Buildings and Other Structures, commonly known as ASCE 7-16 Standard. It consolidates all provisions of ASCE 7-16 that are applicable to low-slope roofs in a single document with an aim to help in the design of a wind-resistant low-slope roof.

Readers will appreciate the theoretical description of the dynamics of wind flow around buildings and its effect on wind pressures on low-slope roofs. A step-by-step procedure for determining wind uplift pressures on low-slope roofs, followed by numerical examples of how to use the procedure, provides clarity to theoretical description. Tables have been provided from which wind pressure values can be simply selected without the use of any procedure or calculations.

The update in the monograph was necessitated because of several changes made in ASCE 7-16 from its earlier ASCE 7-10 Standard. The monograph explains a few of the important changes in ASCE 7-16 that impact the design of low-slope roofs:

- A basic wind speed map for Risk Category IV buildings has been added. In ASCE 7-10, Risk Categories III and IV were lumped together, providing one map for both categories. The two categories have been separated in ASCE 7-16.
- Significant changes in basic wind speeds for the continental U.S. and Alaska have been included.
- New effective wind speed maps for the islands of Hawaii have been added.
- A new ground elevation factor that accounts for a location’s elevation above sea level has been added.
- A new building enclosure classification has been introduced.
- Roof zones for roof height ≤ 60 ft. have been modified substantially.

This popular publication deserves to be a part of your personal library if you deal with roofing and building enclosure design and/or their forensics.

Perfect-bound: 164 pages.

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Forensic Engineering: Damage Assessments for Residential and Commercial Structures

Editor: Stephen E. Petty

This comprehensive manual, published in 2013, is packed full of data, charts, and graphs referencing the latest codes and standards. It should provide an excellent reference source for design professionals who venture into this segment of our industry.

Edited by Stephen E. Petty, the tome has chapters by various authors, including Petty; Shaun Gessler; Ronald Lucy, RRC, RRO; George Fells; Patrick Slattery; Herbert Layman; and Thomas Schwartz. Chapters include subjects such as hail damage, synthetic storm drainage (fraud) to roof surfaces, wind damage, water infiltration, indoor environmental quality, attic and crawl space ventilation, mold, forensic inspections, fire damage, vehicle impact, tornado damage, insurance appraisal, and expert witnessing. The book details proven investigation methodologies based on more than 7,000 field investigations.

This publication should prove to be a valuable tool in providing assessments of numerous roof systems damaged in a variety of ways. It should not be employed exclusively but, instead, should be used to augment and in conjunction with other reference matter.

Hardcover: 790 pages, illustrated in full color.

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IIBEC Products

**Replacement IIBEC Registration Card**

Is your IIBEC registration card lost or damaged? We'll send you a new one right away. For IIBEC registrants only.

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- **Nonmembers**: $20.00

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IIBEC PRODUCTS

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Nonmembers NA

Nonmembers

IIBEC members $42.00
Nonmembers NA

Colors Available
Khaki or Navy

IIBEC Sunglass Strap

Colors Available
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IIBEC members $5.00
Nonmembers NA

IIBEC Stainless-Steel Water Bottle

16 oz., powder-coated, double-wall 18/8 stainless-steel thermal tumbler with copper vacuum insulation and threaded snap-fit lid. Hot 12 hours/cold 24 hours.

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Nonmembers $36.95

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Finally, a new way to display your IIBEC pride! This stylish, unstructured khaki- or navy-colored cap features an embroidered IIBEC logo in front and an easily adjustable strap in back. Available only to members. One size fits all.

IIBEC members $18.00
Nonmembers NA

Colors Available
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IIBEC members $18.00
Nonmembers NA

Colors Available
Blue, Black, White, or Steel Gray

IIBEC members $42.00
Nonmembers NA

IIBEC members $45.00
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Men’s
OR
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Available

Men’s Sizes Available
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Ladies’ Sizes Available
S, M, L, or XL

One size fits all.

IIBEC Baseball Cap

Colors Available

IIBEC Golf Shirt

Colors Available

IIBEC Stainless-Steel Water Bottle

Color Available

IIBEC Sunglass Strap

Colors Available

The Guide: An Overview of IIBEC Services 2021-2022
### IIBEC Publications

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<tr>
<td>IIBEC Manual of Practice: Roof, Waterproofing, and Exterior Wall Consultation and Quality Assurance Observation — 3rd. Ed.</td>
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<td>RCI Silver Anniversary Report - Mende</td>
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<td>IIBEC Standard Symbols (hard copy)</td>
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<td>Stucco and Exterior Finish Cladding Systems (digital course manual)</td>
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<td>Vegetative Roofs for the Design Professional (digital course manual)</td>
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### RCI-IIBEC Foundation Publications

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<td>Wind Uplift Pressures on Low-Slope Roofs (2018 Revision) – Patterson/Mehta</td>
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### IIBEC Bookstore Continued

Order online at: [https://rci.ps.membersuite.com/onlinestorefront/BrowseMerchandise.aspx](https://rci.ps.membersuite.com/onlinestorefront/BrowseMerchandise.aspx)

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<td>Architectural Sheet Metal Manual (7th Edition) – SMACNA</td>
<td>Hardcover $240.00</td>
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<td>CD only $290.00</td>
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<td>Green Roof Systems: A Guide to the Planning, Design... – Weiler/Scholz-Barth</td>
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APPLICATION FOR MEMBERSHIP

Name
Informal Name
Credentials (eg., PE)

Company
Date of Birth

Address
Telephone

City, State, ZIP
Fax

Parent Company (if different)
E-mail Address

IIBEC Member Sponsor (for affiliate membership)
Website Address

Referred by
Membership ID of Referring Individual

CLASSIFICATION

Indicate the classification of membership for which you are applying.

☐ CONSULTANT – Consultant members shall be those individuals who are practicing consultants, architects, or engineers. They shall not be employees or principals of any business entities controlling or directing the application, manufacture, distribution, sales, or marketing of roofing, waterproofing, and/or exterior wall products and services, and shall have no conflict of interest as defined in Article 16 of the IIBEC bylaws. Consultant and Consultant Affiliate members shall be eligible to vote, serve on committees, and hold any office of IIBEC. Consultant members may sponsor up to two Consultant Affiliate members. $515.00

☐ CONSULTANT AFFILIATE – Consultant Affiliate members must meet the same qualifications as Consultant members. They shall be sponsored or hosted by a Consultant member within the same firm as the Affiliate. Affiliate members shall have the same rights and privileges as their sponsoring Consultant members. $415.00 (Affiliate MUST list sponsor.)

☐ INDUSTRY – Industry members shall be those individuals who are employees or principals of any business entity directing and controlling the application, manufacture, distribution, sales, or marketing of roofing, waterproofing, and/or exterior wall products and services. Industry members shall not be eligible to vote or hold office unless they are Registered Roof Consultants who attained registration prior to March 1, 1995. They may, however, serve on committees. Industry members may sponsor up to two Industry Affiliate members. $595.00

☐ INDUSTRY AFFILIATE – Industry Affiliate members must meet the same qualifications as Industry members. They shall be sponsored or hosted by an Industry member within the same firm as the Affiliate. Affiliate members shall have the same rights and privileges as their sponsoring Industry members. $495.00 (Affiliate MUST list sponsor.)

☐ QUALITY ASSURANCE OBSERVER – Quality Assurance members shall be independent quality observers. They shall not be employees or principals of any business entities controlling or directing the application, manufacture, distribution, sales, or marketing of roofing, waterproofing, and/or exterior wall products and services and shall have no conflict of interest as defined in Article 16 of the IIBEC bylaws. Quality Assurance members shall not be eligible to vote or hold office but may serve on committees. $335.00

☐ FACILITY MANAGER – Facility Manager members shall be those individuals whose professional responsibilities include management, development, or maintenance of buildings, both public and private. Facility Manager members shall not be eligible to vote or hold office but may serve on committees. $180.00

☐ ASSOCIATE – Associate members shall be those individuals who are not actually within the roofing, waterproofing, and/or exterior wall industries, such as educators and employees of business concerns or government agencies, but who share an interest in the activities of IIBEC. Associate members shall not be eligible to vote or hold office, but they may serve on committees. $180.00

☐ STUDENT – Student members shall be full-time undergraduate or graduate students majoring in a construction-related curriculum in an educational institution. Student members shall not be eligible to vote or hold office, but they may serve on committees. $150.00

The prices above reflect the 2021 schedule. Payable in U.S. funds.

SPECIALTIES

Please check only those services you individually provide.* Membership is individually based and nontransferable.

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☐ B. Waterproofing Consulting ☐ F. Contracting ☐ J. Specifying ☐ N. Inspections
☐ C. Exterior Wall Consulting ☐ G. Manufacturing ☐ K. Student ☐ O. Building Enclosure Commissioning
☐ D. Materials Testing ☐ H. Materials Sales

*IIBEC is not responsible for verification of services listed by a member.

I certify that I have read and understand the IIBEC Code of Ethics and hereby agree to abide by its principles. Any breach of these ethics may result in the forfeiture of my membership.

Signature

PAYMENT METHOD

☐ Visa ☐ MC Card #: __________________________
☐ AmEx ☐ Discover Expiration Date: __________________________
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