There are a lot of *myths*, but one single source for the *truth*.

That *truth* is in ...

The strength of our fiber reinforcement.
The history of our formula.
The longevity of our performance.

SEE IT TO BELIEVE IT.

Their idea of Fiber  Our idea of Fiber

See through the myths at FiberTite.com/Truth.
The International Institute of Building Enclosure Consultants (IIBEC, pronounced eye-bec) is an international nonprofit 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 IIBEC 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 3,600. 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-accredited 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.

**Value of IIBEC**

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

- Increase exposure and usage of IIBEC resources.
- Enhance and expand IIBEC member resources.
- Grow IIBEC’s brand awareness.
- Promote the use and value of consultant members.

**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.

**Registrations & Certifications**

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.

**Knowledge Transfer**

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.

**Chapters**

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 IBEC and chapters.
- Increase effectiveness of chapters in influencing local public policy issues.

**Emerging Professionals**

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.
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. Sheridan is president of Fishburn Sheridan & Associates Ltd., which he and Doug Fishburn opened in 2001 in Ottawa (and which now has four offices in Ontario and Québec). 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 Envelope Symposium Committee chair from 2015-18, and has been a featured speaker at IIBEC conventions and symposia. She is a director with DeSimone Consulting Engineers within the forensics and building enclosure practices. She holds a bachelor’s degree in architectural engineering from the University of Texas at Austin.

Mr. Card is a senior consultant and principal of Wetherholt and Associates, Inc. He is a founding member of the Puget Sound and Portland Chapters of IIBEC and has been a regular presenter of IIBEC educational courses around the country. He also assisted with revision of the RWC exam and chaired the REWO Exam Development Subcommittee.

Mr. Pallash joined IIBEC 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.
Mr. Violette established Violette Engineering in 2014 after 23 years with Gardner James Engineering and Wiss, Janney, Elstner. He has been active on IIBEC’s Building Enclosure Symposium Committee and its Annual Convention Committee, and is a past president, vice president, and secretary of the Mid-Atlantic Chapter of IIBEC.

Mr. Dawkins is a past president of the Georgia Chapter of IIBEC. He has practiced as a building consultant and consulting engineer since 1993, after 12 years with the U.S. Navy Civil Engineer Corps.

Mr. Keeton founded KDENT, Inc. in 2000. He has spent 30 years in all phases of curtainwall, storefront, window, and door design, erection, and testing, as well as 20 years in building enclosure consulting. Keeton possesses certifications in commissioning and is the founding chair of the BEC Ozark Regional Chapter.

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.
**REGION V**

Szymon Zienkiewicz, RRC, RRO, PE

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.

**REGION VI**

Burt Carver, RRC, RRO

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 Canad Chapter of IIBEC, and in 2018 he received the IIBEC Outstanding Volunteer Award.

**REGION VII**

Jennifer Hogan, RRO, CET, LEED AP, Certified Passive House Consultant

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.
## ADVOCACY
Advises the IIBEC Board of Directors on matters dealing with advocacy issues regarding the association and its members.

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**Staff liaison:** Brian Gardiner. E-mail: bgardiner@iibec.org.

## EXECUTIVE
Made up of the officers of IIBEC. Acts on overall policy and executive decisions for the association.  
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## ANNUAL CONVENTION
Oversees selection of technical speakers and other functions of the annual IIBEC convention and trade show.  
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## DOCUMENT COMPETITION
Regulates and judges the annual Document Competition.  
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## HOROWITZ AWARD
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## BUILDING ENCLOSURE COMMISSIONING (BECX)
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NOMINATING
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RRO® EXAM DEVELOPMENT

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RWC® EXAM DEVELOPMENT

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New Jersey
New York
Ohio
Pennsylvania
Puerto Rico
Rhode Island
Vermont
West Virginia

Region II
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Florida
Georgia
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

Region VII
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Nova Scotia
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IIBEC-AFFILIATED CHAPTERS

REGION VI

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REGION VII

SOUTHERN ONTARIO CHAPTER
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VP: Stephanie Robinson
Treas.: Kevin Voorberg
Sect.: Allen Lyte, RRO
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National Capital Branch
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michel@fsaeng.com
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 registration programs such as Registered Roof Consultant (RRC®), Registered Roof Observer (RRO®), Registered Waterproofing Consultant (RWC®), Registered Exterior Wall Consultant (REWC®), Registered Exterior Wall Observer (REWO®), and Registered Building Envelope Consultant (RBEC®).

**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 international 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.

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

Name
Informal Name
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. $150.00

☐ 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 2020 schedule. Payable in U.S. funds.

SPECIALTIES

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

☐ A. Roof Consulting  ☐ E. Witness/Legal Involvement  ☐ I. Education  ☐ M. Residential
☐ 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: ____________________________
☐ Check (Made payable to IIBEC)  3- or 4-Digit Verification Value Code: ____________  Signature: ____________________________

Return with payment to: IIBEC, 1500 Sunday Drive, Suite 204, Raleigh, NC 27607 • Phone: 919-859-0742 • Fax: 919-859-1328
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;
   f. Exercising unprejudiced and unbiased judgment and conduct when performing all services;
   g. Undertaking assignments only when qualified by education and experience in the specific technical fields involved;
   h. Declining any activity or employment, avoiding any financial or other interest, and refusing any contribution if it would reasonably appear that such activity, employment, interest, or contribution could compromise their judgment or conduct or prevent them from serving the best interests of their clients or employers, without making full disclosure to the client and obtaining the client’s consent thereto; and
   i. Neither offering nor making any payment or gift to any public official, private client, or industry representative with the intent of influencing that person’s judgment or decision in connection with an existing or prospective project in which the member/registrant is interested.
4. Members and registrants shall recognize the value and contributions of others engaged in all aspects of consultation, design, and construction. This means they shall:
   a. Refrain from making false statements about the work of others and shall not maliciously injure or attempt to injure the prospects, practice, or employment position of others;
   b. Encourage professional education and research, as well as the development and dissemination of information related to all aspects of consultation, design, and construction of roofing, waterproofing, and exterior wall systems; and
   c. Take into account applicable
laws and regulations and may rely on the advice of other competent and qualified persons as to the intent and meaning of such applicable laws and regulations.

5. Members and registrants shall not accept compensation—financial or otherwise—from more than one party for services on the same project, or for services pertaining to the same project, unless the circumstances are fully disclosed.

6. Members and registrants shall not intentionally or recklessly mislead existing or prospective clients about the results that can be achieved through the use of the members’ or registrants’ services or products, nor shall the members or registrants state that they can achieve results by means that violate applicable law or the Code.

7. Members and registrants having substantial information leading to a reasonable belief that another member or registrant has committed a violation of this Code that raises a serious question as to the honesty, trustworthiness, or fitness of the other member or registrant shall file a complaint with the IIBEC Ethics Committee.

8. Members and registrants shall maintain and further their knowledge of the science, principles, and ethics of their profession.

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 Registered Building Enclosure Consultant (RBEC®) designation is awarded to those who have earned the Registered Roof Consultant, Registered Waterproofing Consultant, and Registered Exterior Wall Consultant designations. As it represents all three consultant designations, it may be listed by itself or in combination with the individual consultant designations.
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

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 as follows:
RRC application fee:
• $350 for IIBEC members
• $425 for nonmembers
RRC examination fee:
• $250 for IIBEC members
• $325 for nonmembers

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
The RRC title must be renewed annually. Currently, renewal requires 12 CEHs in the roofing, waterproofing, and/or exterior wall fields and payment of the $175 renewal fee ($250 for nonmembers) to maintain this registration.

It is possible to earn all 12 hours at the annual IIBEC Convention or the IIBEC Building Enclosure Symposium (BES). In addition, a maximum of six hours (50%) beyond the annual requirement may be carried forward and used toward registration renewal for the following year only.
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 as follows:
- RWC application fee:
  - $350 for IIBEC members
  - $425 for nonmembers
- RWC examination fee:
  - $250 for IIBEC members
  - $325 for nonmembers

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
The RWC title must be renewed annually. Currently, renewal requires 12 CEHs in the roofing, waterproofing, and/or exterior wall fields and payment of the $175 renewal fee ($250 for nonmembers) to maintain this registration.

It is possible to earn all 12 hours at the annual IIBEC Convention or IIBEC BES. In addition, a maximum of six hours (50%) beyond the annual requirement may be carried forward and used toward registration renewal for the following year only.
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 as follows:
- REWC application fee:
  - $350 for IIBEC members
  - $425 for nonmembers
- REWC examination fee:
  - $250 for IIBEC members
  - $325 for nonmembers

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
The REWC title must be renewed annually. Currently, renewal requires 12 CEHs in the roofing, waterproofing, and/or exterior wall fields and payment of the $175 renewal fee ($250 for nonmembers) to maintain this registration.

It is possible to earn all 12 hours at the annual IIBEC convention or IIBEC BES. In addition, a maximum of six hours (50%) beyond the annual requirement may be carried forward and used toward registration renewal for the following year only.
The Registered Building Enclosure Consultant (RBEC) designation is awarded to those who have earned the Registered Roof Consultant (RRC), Registered Waterproofing Consultant (RWC), and Registered Exterior Wall Consultant (REWC) registrations. Individuals desiring this designation are required to complete a form before it is awarded.

To maintain this designation, the individual renewal fees for the RRC, RWC, and REWC registrations must be paid. The RBEC title may be listed in combination with the individual consultant designations or by itself, which offers a discounted renewal fee.

Individuals holding this designation will be required to sign a form to confirm that the annually required 15 CEHs have been earned from a combination of roofing, waterproofing, and exterior wall courses.

It is possible to earn all 15 hours at the annual IIBEC convention.

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 as follows:
RRO application fee:
• $350 for IIBEC members • $425 for nonmembers
RRO examination fee:
• $250 for IIBEC members • $325 for nonmembers

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
The RRO title must be renewed annually. Renewal requires ten continuing educational hours (CEHs) in the roofing, waterproofing, and/or exterior wall industries and payment of the $175 renewal fee ($250 for nonmembers). Currently, a maximum of five hours (50%) beyond the annual requirement may be carried forward and used toward the registration renewal for the following year only.
REGISTERED EXTERIOR WALL OBSERVER PROGRAM

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.

Fees

The fees for REWO applicants are as follows:

- REWO application fee: $350 for IIBEC members • $425 for nonmembers
- REWO examination fee: $250 for IIBEC members • $325 for nonmembers

REWO Exam

The exam includes 75 questions designed to measure the applicant’s knowledge regarding construction documents, ethical standards, communication skills, safety practices, exterior wall systems, field observation practices, and reporting. Up to three hours are allotted to complete it. Results will be conveyed to the candidate immediately upon completion.

Renewal Policy

The REWO title must be renewed annually. Renewal requires ten continuing educational hours (CEHs) in the roofing, waterproofing, and/or exterior wall industries and payment of the $175 renewal fee ($250 for nonmembers). Currently, a maximum of five hours (50%) beyond the annual requirement may be carried forward and used toward the registration renewal for the following year only.

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.
Certified Building Enclosure Commissioning Provider

ISO 17024 accredited certification offered by IIBEC

The CBECxP® conducts all tasks for comprehensive building enclosure commissioning.

Become a CBECxP® Today
iibec.org | 800-828-1902
IIBEC offers a series of educational courses and seminars throughout the year in the U.S. and Canada covering all segments of the building enclosure. Seminar material is continually updated with the latest technology and industry practices. Courses are taught by IIBEC professional staff and field professionals or IIBEC volunteers with years of experience and a wealth of expertise. Courses are available in three formats: as on-site courses at chapter and national levels, delivered by staff, approved instructors, or a combination of both; by online delivery as e-learning courses; or as 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. Please contact IIBEC for more information about the contract course option. For online courses, please see registration information under the “Education” tab on IIBEC’s website: iibec.org. For course dates and locations, check the Calendar of Events on the website. Manuals are provided for on-site courses and are also available for purchase separately. For online courses, slides may be printed to create a manual.

Answering the need to establish a standard of qualifications and practice in an unregulated industry, IIBEC has 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 exams. In the description of each course you will find information indicating whether the course is recommended to be taken when working towards 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.

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 a big step in your career, and we’re here to guide you with courses offered every month across the U.S. and Canada. AIA LUs and IIBEC CEHs are offered for each course.

We make it easy to stay at the top of your field and keep up with continuing education with our selection of online courses on a variety of trending topics. Courses offered completely online allow professionals to earn continuing education hours from the convenience of your own office or location, and on your schedule. AIA LUs and IIBEC CEHs are offered for our online courses in the same way that they would be obtained at an in-person course.

Contract with us to host a course at your facility and on your schedule. Contract courses are offered to a minimum of 15 people at your location. Save on travel and hotel expenses and get the customized experience for your organization that meets your specific needs. As with all our education courses, AIA LUs and IIBEC CEHs are available. A list of courses available for contract are on the next pages.
IN-PERSON AND CONTRACT COURSES

Architectural Sheet Metal Flashing Design
Architectural Sheet Metal Flashing Design is a one-day 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®)

Building Enclosure Quality Assurance
Building Enclosure Quality Assurance is a one-day 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®)

Exterior Concrete Wall Systems
This two-day 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®)

Exterior Wall Quality Assurance
Exterior Wall Quality Assurance is a one-day 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®)

Exterior Wall Technology and Science
This two-day 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®)
IN-PERSON AND CONTRACT COURSES

Masonry Wall Systems
This 1.5-day 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 two-day course is a classroom 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. (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

Roof Technology and Science I
This two-day course is a 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. (Recommended for RRC® • Recommended for RRO®)

16 CEHs • AIA LUs
IN-PERSON AND CONTRACT COURSES

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. (Recommended for RRC® • Recommended for RRO®)

16 CEHs • AIA LUs

Rooftop Quality Assurance
Rooftop Quality Assurance is a one-day 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. (Recommended for RRO®)

8 CEHs • AIA LUs

RRC Review and Update
This one-day 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. (Recommended for RRC®)

8 CEHs • AIA LUs

Stucco and Exterior Finish Cladding Systems
The Stucco and Exterior Finish Cladding Systems course is a 1.5-day program and 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 one-day 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
IN-PERSON AND CONTRACT COURSES

Waterproofing
The two-day course is designed for the practicing consultant and those who are aspiring to become Registered Waterproofing Consultants. This course focuses on split-slab plaza 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

ONLINE COURSES

Access IIBEC’s online courses through our online learning portal. Classes can be taken at your convenience and anywhere internet access is available. You have 365 days from the date of registration to complete your course. All IIBEC courses are approved for IIBEC CEHs, AIA LUs, and for the AIA Health, Safety, and Welfare Credit.

Roof Drainage Design
The purpose of this course is to understand the principles of proper roof drainage and to be able to design and size roof drainage devices. The goal is to apply code mandates and industry standards to drain design. Although it is the intention of this course to prepare a student to do engineering calculations, it may not enable a non-licensed professional to do design and engineering work regulated by state licensure laws. (Recommended for RRC® • Recommended for RWC®)

4 CEHs • AIA LUs

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. (Recommended for RRC®)

4 CEHs • AIA LUs

Roofing Basics
This course is intended for those wanting to develop a better understanding of roofing materials and terminology. The following systems and concepts are covered in this course: roof decks – concrete, steel, and wood; various rigid board roof insulations; built-up roofing (BUR) materials and installation; modified-bitumen roofing systems; single-ply roofing; and miscellaneous roofing systems including protected membrane roofing (PMR), metal roofing, and spray-in-place polyurethane foam. (Recommended for Support Staff)

4 CEHs • AIA LUs
ONLINE COURSES

**Roof Technology and Science, Part I**
This course is designed for practicing roof consultants, architects, engineers, building owners and managers, and manufacturers’ technical personnel who desire to become more knowledgeable about the science and technology of roofing. The course is organized into seven main topics: roof decks and drainage, thermal and moisture design, calculations and materials, bituminous systems, single-ply roofing systems, spray-applied polyurethane roofing systems, and protected membrane roofing systems. (Recommended for RRC® • Recommended for RRO®)

**Roof Technology and Science, Part II**
Roof Technology and Science II is the second step and is a continuation of Roof Technology & Science I, focusing on different topics such as roof design for wind resistance and fire resistance. This course also explores additional roofing systems such as fluid-applied membranes, steep-slope roofing systems, metal roofing, and roof flashing principles. Additionally, the course addresses prolonging the life of roof systems through proper maintenance. (Recommended for RRC® • Recommended for RRO®)

**Rooftop Quality Assurance**
This course is designed for those intending to become more professional as rooftop quality assurance observers. Although not a preparation course for taking the Registered Roof Observer (RRO) exam, this course provides useful information for the observer who is studying for this registration. (Recommended for RRO®)

**Wind Design for Low-Slope Roofs Part I: Understanding ASCE 7-10 Wind Load Calculations**
This course is designed for practicing roof consultants, architects, and engineers who want to become more knowledgeable about the major factors that affect designing roofs for wind resistance in order to meet building codes. The focus of this course is on calculations of wind uplift pressures according to ASCE 7 methodology. (Recommended for RRC®)

**Wind Design for Low-Slope Roofs Part II: FM Global Guidelines and Best-Practice Considerations**
This course is designed for practicing roof consultants, roofing contractors, architects, and engineers who want to become more knowledgeable about the major factors that affect designing roofs for wind resistance in order to meet insurance requirements and building codes. The focus of this course is on FM Global guidelines and other miscellaneous wind design guides. (Recommended for RRC®)
IIBEC holds a building enclosure symposium (BES) each year in a strategic geographical location. This seminar features presentations on the building enclosure, including below-grade waterproofing, building sealants, deck coverings, exterior insulation and finishing systems, fenestration, maintenance programs, materials testing, membranes, penetrations and flashings, tilt-ups, and water repellents.

It is designed for building enclosure consultants, architects, engineers, owners, maintenance supervisors, plant engineers, specifiers, and general contractors who desire a general overview of the elements of the building enclosure and how they relate to one another.

This year’s event was rescheduled from Florida to Houston, TX, after the COVID-19 pandemic caused reconfiguration of IIBEC’s meeting plans. The newly imagined schedule will not only include the usual cutting-edge educational offerings attendees enjoy at traditional BES events, but it will also feature rescheduled activities that would have been held at the postponed 2020 International Convention and Trade Show. Check IIBEC’s website for more information.

Houston—America’s fourth-largest city—is a cosmopolitan destination, filled with world-class dining, arts, shopping, and nightlife, where Southern hospitality meets urban chic city.

NOVEMBER 20–22, 2020
MARRIOTT MARQUIS
HOUSTON, TEXAS
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, optional sightseeing tours, a golf tournament, regional meetings, an awards luncheon, the Annual Meeting of the Members, 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.

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.
ICBEST

2020 INTERNATIONAL CONFERENCE ON BUILDING ENVELOPE SYSTEMS AND TECHNOLOGIES (ICBEST)

AUGUST 31–SEPTEMBER 2, 2020
THE WESTIN BAYSHORE
VANCOUVER, BRITISH COLUMBIA
CANADA

IIBEC is partnering with the National Research Council of Canada (NRC) to co-host the 2020 International Conference on Building Envelope Systems and Technologies (ICBEST). The 2020 ICBEST conference will take place August 31 – September 2, 2020, in Vancouver, British Columbia, Canada, at the Westin Bayshore Hotel.

ICBEST provides a worldwide forum for the exchange of information and discussion of recent developments in, and applications of, building envelope engineering. ICBEST’s scope is to bring together engineers, architects, scientists, and practitioners with a common interest to promote new knowledge and practices of building envelope systems and technologies.

The NRC is the primary national research and technology organization of the government of Canada in science and technology research and development. It is governed by a council of appointees drawn from its client community. The NRC’s intent is to shorten the gap between early-stage research and development and commercialization. The NRC partners with Canadian industry to take research from the lab to the marketplace. It is uniquely placed to partner with Canadian industry to invest in strategic R&D programming that will address critical issues for the future. Each year, its scientists, engineers, and business experts work closely with thousands of Canadian firms, helping them bring new technologies to market to support Canadian businesses.

For more information about this event, please visit icbest2020.com.

Region / Chapter Meetings

IIBEC’s regions and chapters have periodic one-day 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 educational programs approved for such by IIBEC’s Registration Department. 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.
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 Executive Editor Kristen Ammerman at kammerman@iibec.org or 919-859-0742.

### SUBMISSION | ISSUE THEME* | DEADLINE
--- | --- | ---
September 2020 | Raising the Bar in Standards | June 15, 2020
October 2020 | The Building Enclosure (catch-all) | July 15, 2020
November 2020 | Claddings | August 15, 2020
January 2021 | Building Failures | October 15, 2020
February 2021 | Unconventional Roofing | November 15, 2020
March 2021 | The Building Enclosure (catch-all) | December 15, 2020
April 2021 | Wall Assemblies | January 15, 2021
May/June 2021 | Convention Issue Review | February 15, 2021
July 2021 | Codes & Standards | April 15, 2021
August 2021 | Mid-Century Modern Restoration | May 15, 2021
September 2021 | The Building Enclosure (catch-all) | June 15, 2021
October 2021 | Air Barriers | July 15, 2021
November 2021 | Weather | August 15, 2021
December 2021 | Waterproofing | September 15, 2021

*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 roofing, waterproofing, and exterior wall consulting 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 smorgasbord of association and industry 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. 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 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
IIBEC is a professional association serving the needs of more than 3,600 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 Mass Marketing**
- IIBEC Interface technical journal

**Web-Based Mass 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
- 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

- 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:

- Funding to update the 2003 *Roof Drainage* monograph. The publication is being authored by IIBEC member Stephen Patterson, RRC, PE, and Madan Mehta, PhD, PE, from the University of Texas – Arlington.
- Providing financial support for 10 students and two professors from the University of Kentucky College of Design to attend the Building Enclosure Symposium in Louisville, KY.
- Funding new research at Virginia Tech on thermal bridging via roof fasteners in collaboration with GAF and Simpson Gumpertz & Hager, Inc.
- Collaborating with the Single-Ply Roofing Industry (SPRI) to research performance of various roof decking materials as moisture content varies,
- Supporting and 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 7-10 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 learn more about the many research projects and publications funded by the Foundation, visit [https://rci-iibecfoundation.org/](https://rci-iibecfoundation.org/).

The Board is continually identifying educational and research areas in roofing, waterproofing, and exterior wall systems that require 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 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 people pursuing research, advancing their 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](http://www.rcifoundation.ca).

Foundation-funded activities include:

- Providing scholarships for five students to attend the first-ever Canadian Building Envelope Symposium in Mississauga, Ontario.
- Funding 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 Foundation has been collaborating with SPRI for research on the roofing assembly.

THE MISSION

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

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.

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

<table>
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<tr>
<th>Level</th>
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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, RRO, CCCA, was presented with the award in 2019 for his outstanding educational contributions to the industry.

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) (D)
- 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) (D)
- Gerard Teitsma, F-FIIBEC, RRC, RRO, CCCA (2009)
- Appupillai “Bas” Baskaran, PhD, PE (2014)
- André Desjarlais, FASTM (2014)
- Walter Rossiter (2014)
- Wanda Edwards, PE (2017)

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)
- Donald Kilpatrick (2004)

- Kamran Farahmandpour, RRC, RWC, PE, CCS (2005)
- Karl Schaad, RCE, 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 Schaad, RCE, 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)
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:

Lyle D. Hogan, RRC, F-IIBEC, PE (2003)
William Cypher, F-IIBEC, RRC (2005)
Kamran Farahmandpour, F-IIBEC, RRC, RWC, PE, CCS (2006)
Olan H. Lewis (2007)
John D. Shepherd, RRC, PE (2008)
Donald Bush Sr., RRC, F-IIBEC (2009) (D)
Alan Spaite, PE, CCPM (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, CD (2014)
Katharine Spavins (2016)
Jonathan Cannon, RRC, RRO, CD (2017)
Jerry Abendroth, RBEC, RRO, CD (2018)
Brian R. “Rick” Craig, F-IIBEC, RRC, RRO (2019)

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) (D)
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 Kamszik (2018)
Brian Gardiner, F-IIBEC, RRC, CCS (2019)
Richard Wagner, RRC, CCS (2019)

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, CCCA, 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)
JURY OF FELLOWS OF IIBEC

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) (D)
- Robert W. Lyons (1986) (D)
- Dr. Herbert W. Busching, PE (1987) (D)
- Richard P. Canon, RRC, PE (1987)
- D.B. “Ben” Hales, RRC (1989) (D)
- George F. Kanz, RRC (1990)
- Richard M. Horowitz, AIA, RRC (1990) (D)
- James E. Magowan, RRC (1991) (D)
- Donald E. Bush Sr., RRC (1992) (D)
- Joe F. Hale (1992)
- Barry S. Krum (1993) (D)
- Robert Martin, RRC (1993)
- Sam Huff, RRC (1994)
- Lyle Hogan, RRC, PE (1994)
- Arthur O. Sark, RRC (1996)
- Dave H. Siple, RRC (1996) (D)
- Phil Dregger, RRC, PE (1997)
- Robb Smith, RRC, RRO (1998)
- Michael Blanchette, RRC, RRO (1999)
- William Cyphers, RRC (1999)
- Matt Hitlin (2000)
- James “J.P.” Sheahan, RRC (2000) (D)
- Colin Murphy, RRC (2001)
- George Criel, RRC (2002)
- Michael DeFrancesco, RRC (2003) (D)
- 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)
- 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) (D)
- 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 “Bash” Baskaran, PhD, PEng (2020)
- Robert D. Card, RBEC, REWO (2020)
- Walter J. Rossiter Jr., PhD (2020)
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 are 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.
RCI: The First Five Years
Author: William C. Correll, AIA, F-IIBEC

RCI: The First Five Years details the history of IIBEC (formerly RCI) from its earliest days. Published by the association in 1989, it was written with a chatty, personal flair by IIBEC’s first executive director, William C. Correll, AIA, F-IIBEC.

Mr. Correll takes the reader on a historical tour of IIBEC, from the spark of an idea in the mind of Robert W. Lyons in 1979, through the first official IIBEC (then N.A.R.C.S.) organizational meeting in 1981, on to the election of its first officers and the receipt of IIBEC’s nonprofit organizational charter from the state of North Carolina in May 1983.

Filled with Correll’s observations and amusing anecdotes about the shoestring birth and steady growth of the fledgling association and its founding fathers, the soft-cover booklet includes photos of early officers and lists of committee chairpersons and regional officers. It chronicles the organization’s first board meetings, conventions, and registration examinations, and it reviews the challenges facing the infant association.

The reader will learn many interesting tidbits about IIBEC, such as:

- There were more committees than paid-up IIBEC members in 1983.
- Strictly a volunteer, Correll logged 1,067 hours in 1985 alone for $0. He did not draw a salary until he had worked as a volunteer for more than three years.
- In 1987, the Board of Directors actually voted to move IIBEC headquarters to Dallas, Texas.

Softcover: 58 pages.

RCI Silver Anniversary Report
Author: Gilbert H. Mende

From the genesis of an idea forming in the mind of Robert W. Lyons in 1979 grew an organization that numbered 2,200 members by 2008, when it celebrated the 25th year since its “official” May 1983 birth as the Roof Consultants Institute (now IIBEC).

The RCI Silver Anniversary Report is a review—sometimes whimsical, often matter-of-fact—of the reported history of those 25 years, gleaned primarily from the pages of the association’s technical journal, Interface, and its now-defunct member newsletters, RCItems and Base Sheet.

The 82-page booklet is full of a quarter century of happenings in the industry’s preeminent roofing, waterproofing, and exterior wall association. Smattered with photographs, historical landmarks, and years of good intentions—some fulfilled, some not—the book chronicles the birth, adolescence, and coming of age of IIBEC.

The Report briefly reviews the first five years covered more thoroughly in William Correll’s seminal history of that name (see above), then more broadly covers the ensuing two decades up to 2008.

Longstanding and new members of IIBEC will cherish a copy of this nostalgic gem for their bookshelves. It’s sure to become a collector’s item.

Softcover: 82 pages; 80+ photos.
IIBEC Building Enclosure Symposium and IIBEC Convention Proceedings

Articles and presentations from the industry’s top experts on building enclosure technology contributed to the contents of these IIBEC Building Enclosure Symposium and Annual Convention proceedings.

Symposium and convention papers include such topics as deterioration and performance problems and recommended remedial solutions related to wind load, roof decks, materials and products, stone construction, cement, plaster, architectural terracotta, waterproofing, moisture detection, and the future of building enclosure design. Each symposium proceedings has approximately one dozen technical articles by expert instructors, reinforcing practical examples of applications in the field. Each convention proceedings has approximately 24 such papers.

Stipulate year. Some years sold out. Starting in 2018/19, only digital versions available.

Roof Drainage

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

Drainage is one of the most important elements of roof design. Water accumulations that are substantially in excess of the structural capacities of roofs are the cause of many roof collapses. This monograph includes an in-depth discussion of various theories of hydraulics as they apply to roof drainage pipes, gutters, and scuppers. It is believed to be the first text that comprehensively compiles various roof drainage issues that exist in plumbing codes, building codes, and related industry standards.

Chapters include an Introduction to Roof Drainage; Design of Roof Drains, Pipes, and Scuppers; Design and Hydraulics of Gutters and Downspouts; and Hydrology and Roof Drainage.

Numerous graphs, tables, drawings, and photos illustrate the concepts detailed. Specific examples walk the designer through the process of determining proper roof drainage for various rainfall intensities in specific geographies.

A publication of the RCI Foundation.

Spiral-bound: 77 pages.

IIBEC members $45.00
Nonmembers $50.00

IIBEC members $30.00
Nonmembers $35.00

Spiral-bound, 2006 through 2018 include a CD with complete PDF. Proceedings digital only in 2018/19.
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 \( \leq 60 \text{ ft.} \) 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.

IIBEC members $45.00
Nonmembers $50.00
NRCA/RCI Roofing Project Submittal and Protocol Guidelines
Authors: RCI, Inc. (now IIBEC) and NRCA

A joint document published cooperatively by RCI, Inc. (now the International Institute of Building Enclosure Consultants, or IIBEC) and the National Roofing Contractors Association (NRCA) in 2004, this publication provides a consensus approach to the roofing project submittal and protocol process. It includes the pre-bid, bidding period, preconstruction, construction, and closeout phases. The document also designates areas of responsibility among contractors, owners, and specifiers.

Perfect-bound: 10 pages.

Architectural Sheet Metal Quality Assurance Guide
Authors: IIBEC and SMACNA

This document was compiled as a joint project by IIBEC (then RCI) and the Sheet Metal and Air Conditioning Contractors’ National Association (SMACNA) to provide guidance on the evaluation of sheet metal roofing systems and sheet metal components of building enclosure systems, including roofing, exterior walls, waterproofing, and transition flashings. The guidelines included cover these systems during their initial construction and also during post-construction activities, such as condition assessments and maintenance.

The purpose of the manual is to assist quality assurance observers (QAOs) and owners who have a limited knowledge and experience in the specifics of architectural sheet metal component installation or evaluation. It also serves as a procedural guide for experienced professionals who review architectural sheet metal systems regularly.

During construction, QAOs can review the sheet metal systems as they are installed to confirm they comply with the project specifications, industry standards, and recognized guidelines for the work being performed.

The publication also includes explanations of the various metals and methods used in roofs and walls, the concept of redundancy, building enclosure fabrication tolerances, and more.

Sofcover: 112 pages.
Recognizing that roof and wall penetrations are problematic sources for leaks, SMACNA has dedicated a separate chapter to penetrations, complete with new drawings and commentary. Purchase the hard copy, the CD, or the hard copy/CD combo.

Softcover: 542 pages and 14 appendices.

Architectural Sheet Metal Manual (Seventh Edition)
Author: SMACNA

The Sheet Metal and Air Conditioning Contractors’ National Association (SMACNA) has published design recommendations since 1950. This 542-page seventh edition of its Architectural Sheet Metal Manual includes new commentary and drawings throughout. New chapters and appendices cover wall and roof penetrations, interior architectural sheet metal elements, architectural fascia and coping wind test reports, and general guidelines about joint sealants for specifiers.

Many new details have been added in the expanded historical sheet metal restoration chapter. Restoration of skylights, cornices, historical domes, and spires have been expanded upon. Other substantive changes since the sixth edition include the sections on copings, snow guards, zinc, underlayments, and flashings. Results of SMACNA wind pull-off resistance testing on custom-fabricated fascia and coping are included.

Softcover: 542 pages and 14 appendices.

Construction Waterproofing Handbook (Second Edition)
Author: Michael T. Kubal

This second edition (2008) of Michael T. Kubal’s Construction Waterproofing Handbook is fully updated to include new techniques for mold remediation. It is an all-inclusive, project-simplifying guide for waterproofing and construction professionals. This comprehensive, answer-packed resource is loaded with up-to-date, clearly defined information for every project, including building enclosure, below-grade, above-grade, and remedial waterproofing. Get information on materials, maintenance and warranties, sealants, admixtures, expansion joints, testing, leak investigation and detection, safety issues, and more. The book includes the following:

- How to detect and correct existing leakage
- Interior waterproofing applications
- Exterior insulated finish systems (EIFS) watertight applications
- Three hundred added illustrations, details, and photographs
- Inspection techniques and checklist
- Complete coverage of glazing techniques
- Transitions and terminations
- Updated product resource lists and website addresses
- Manufacturers who provide electronic detail for plans and specifications

Hardcover: 600 pages.
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.


Authors: Susan K. Weiler and Katrin Scholz-Barth

Green Roof Systems: A Guide to the Planning, Design, and Construction of Landscapes Over Structure is a resource for design teams and construction consultants, covering design and construction considerations for the installation of landscapes over plaza decks, parking structures, below-grade structures, vegetative roofing systems, and other structures.

Coauthor Susan Weiler, ASLA, is a partner at OLIN, a Philadelphia landscape architectural and design firm, and she developed the landscape engineering and construction curriculum at Temple University. Coauthor Katrin Scholz-Barth, a consultant based in Washington, D.C., was formerly director of sustainable design for the HOK Planning Group, and she has taught at Harvard and the University of Pennsylvania. Both authors received the 2003 Green Roof Award of Excellence for the Montgomery Park project in Baltimore, MD.

For roofing and waterproofing consultants, this book provides perspective from “city scale” to “project scale.” This perspective may be useful for consultants who want to improve their understanding of macro social and political thought driving the consideration of vegetated systems. It does not, however, provide entirely accurate information on the waterproofing and weight-bearing aspects affecting landscapes over structures.

The book is helpful for individuals concerned with choosing the right plants. Anyone involved with vegetated systems is encouraged to read this book and become proactive in the industry to address the misconceptions this book conveys.

Hardcover: 313 pages; 130 photographs, charts, and diagrams.

Author: Justin Henshell


The 2016 revised edition provides the education and product information to enable building designers to take a sound, fundamental approach to below-grade and plaza waterproofing. This essential resource has been thoroughly updated and expanded to include the knowledge, products, and processes that have been introduced in the 16 years since publication of the first edition.

New chapters cover basement construction, blindside waterproofing, and remediating basement leaks. The plaza waterproofing chapter has been considerably expanded. The specifications chapter has been revised to accommodate CSI’s new seven-digit format.

Building designers specify waterproofing systems and materials that are often based on limited and biased manufacturers’ literature or past experience with systems that work under specific conditions but will fail in other installations. Leakage usually leads to litigation. This book provides the tools to prevent that.

The manual covers the considerable distinctions between waterproofing roofs and plazas and below-grade surfaces, the critical procedures for protecting waterproofing materials during construction, diagnosing leaks, and detailing waterproofing components. It explains how to weigh positive- vs. negative-side waterproofing systems, and dampproofing vs. waterproofing. Coordinating with all the professionals in the waterproofing delivery chain, following environmental protection and other government regulations, and the pros and cons of every material are comprehensively covered.

IIBEC members
$120.00
Nonmembers
$130.00

Hardcover: 294 pages; hundreds of sketches and photographs.

Living Roofs in Integrated Urban Water Systems

Authors: Daniel Roehr and Elizabeth Fassman-Beck

With the infrastructure to manage stormwater threats in cities becoming increasingly expensive to build or repair, the design community needs to look at alternative approaches. Living roofs present an opportunity to complement ground-level stormwater control measures, contributing to a holistic, integrated urban water management system.

As more and more cities are becoming interested in controlling stormwater runoff to reduce flooding, and environmentalists are pushing for and getting laws passed requiring vegetative roofs, building enclosure consultants need tools to plan and design vegetative roofs.

This book offers such tools in the context of effectively mitigating stormwater. Quantitative tools for engineering calculations and qualitative discussion of potential influences and interactions of the design team and assembly elements are addressed.

Extensive lists of references that can be explored are provided, as well as useful checklists for designers and a glossary of terms related to living roofs.

Five case studies of living roof installations are included.

IIBEC members
$70.00
Nonmembers
$75.00

Hardcover: 178 pages.
For decades, this manual has been the most widely respected guide to designing and specifying low-slope roof systems. It remains unique—the only working handbook that treats all roof design topics, from fundamentals to roof systems and materials.

This fourth edition covers major advances in design and materials, as well as changes in building codes. It brings the reader up to speed on roof system performance, emerging materials, drainage, wind uplift, vapor control, fire resistance, thermal insulation, reroofing, and much more. It even offers field-tested solutions for such problems as lap-seam failures, membrane shrinkage, and fastener backout. This definitive text also updates new procedures in inspection and maintenance.

For architects, roof consultants, contractors, spec writers, attorneys, manufacturers—anyone who needs authoritative, up-to-date information on all aspects of roof technology—this book dominates the field. It offers the following:

• Roof failure causes in depth (and specific methods for avoiding them)
• Roof design fundamentals and flourishes, based on voluminous industry research and experience
• Using new technologies and materials safely and correctly
• Comprehensive coverage of all major roofing systems
• Specifications, inspection, and maintenance tools for roofing work

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Planning and Installing Photovoltaic Systems (Third Edition)

Authors: Deutsche Gesellschaft für Sonnenenergie (DGS)

Growth in photovoltaic (PV) manufacturing worldwide continues its upward trajectory. This bestselling guide has become the essential tool for installers, engineers, and architects, detailing every subject necessary for successful project implementation, from the technical design to the legal and marketing issues of PV installation. Beginning with resource assessment and an outline of the core components, this guide comprehensively covers system design, economic analysis, installation, operation, and maintenance of PV systems.

Written by the German Solar Energy Society (DGS), this third edition, published in 2013 and prepared as part of the GREENPro project cofounded by the European Commission, has been fully updated to reflect the state of the art in technology and concepts, including new chapters on inverter and module technology, integration to the grid, and legal and fire requirements, as well as new graphics, data, and photos.

The book covers PV beyond the roof and building enclosure but also does an excellent job covering PV systems specific to the building exterior and building-integrated photovoltaics (BIPV).

It provides significantly more information than a design professional would likely need specific to BIPV, but the detailed chapter layouts allow readers to find the issues they are researching.

Chapters include “Basics,” “Components,” “Site Surveys and Shading Analysis,” “Grid-Connected PV,” “Design Solutions,” “Mounting/Integration,” “Commissioning,” “Stand-Alone PV,” “Economic and Environmental Issues,” and “Marketing.”

The only shortcoming is somewhat unavoidable, as it is based around German practices and regulations. Differences will exist in North America.

The book is published in spiral-bound format with 536 pages, including hundreds of photos and graphics.

Spiral-bound: 536 pages; hundreds of graphics.

Roofing Design and Practice

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

For the first time, there is a comprehensive book written from the design perspective that takes the reader through all of the processes involved in designing a roof. This book is filled with sample problems and easy-to-read, easy-to-understand graphics that explain roof design step by step.

Roofing design is one of the most neglected fields in construction, yet roofing represents well over half the litigation in construction and is the number-one source of building owner complaints. This book is a must-have for anyone involved in construction.

Roofing Design and Practice is written in textbook style by an experienced university professor and a practicing roof consultant/engineer. They have combined their knowledge and talents to develop this comprehensive text on roofing.

Key Features

- Complete, up-to-date reference incorporating International Building Code requirements and industry standards
- Comprehensive coverage of both steep- and low-sloped roofing systems
- Meticulously detailed and illustrated chapters on drainage design, wind design, insulation requirements, vapor control, and flashing design

Softcover: Perfect-bound; 321 pages.
The Slate Roof Bible (Third Edition)

Author: Joseph Jenkins

Joseph Jenkins climbed on his first stone roof in 1968 in Butler, PA, at the age of 16, under the tutelage of a 63-year-old Ukrainian roofer, Peter Odrey. Jenkins—himself 63 when he wrote this edition—has collected a lifetime of experience about slate roofs and published it in *The Slate Roof Bible*, subtitled, “Everything you need to know about the world’s finest roof.”

Following up on his second edition, which earned NRCA’s Gold Circle Award, the third edition includes almost 900 illustrations relating to virtually every facet of slate roofing. The full-color, hardcover book completely updates and expands on the material in the second edition, with more emphasis on the craft of slate roof installation. Dozens of new photos have been added, as well as step-by-step illustrations and line drawings.

The 21 chapters cover the history of slate, the regions in the U.S. where slate originates, and how stone roof shingles are quarried and fabricated. There are chapters on safely working on slate roofs, tools, installation, repairing and restoring slate roofs, slate roof inscriptions and designs, recycling slate roofs, international slate, flashings, chimneys, valleys, slate siding, and other more obscure topics such as box gutters and snow guards.

Offered to IIBEC members at the same low price as the last edition, this book will answer any question pertaining to a slate roofing project.

Hardcover: 374 pages; 900 photos and illustrations.

Roofing Failures

Author: Carl G. Cash

Looking for a great way to introduce roofing failure problems to the rising consultant? To expose him or her to others’ failures and to provide information that will boost his or her worth to the client, the firm’s reputation, and its profitability? *Roofing Failures*, by the late Carl G. Cash, is the perfect training tool.

The first half of Cash’s book describes various components of roofing systems, followed by questions to test the reader’s knowledge of roofing components and the industry. The second half provides case studies describing premature roof failures. With each situation, the author presents the events leading up to the failure and the actions taken to investigate the concern. At the conclusion of each study, Cash outlines follow-up questions and then, in an appendix, gives his final analysis for each case.

This excellent addition to a firm’s training library includes a helpful appendix of roofing trade product names, roofing industry websites, a bibliography, and graphs and drawings.

Hardcover: 249 pages; 45 graphs and drawings; roofing trade name appendix.

Authors: National Slate Association

This award-winning book—the 2010 edition of the classic 1926 publication by the National Slate Association—is a technical manual for a new world: thorough and extremely detailed, without ambiguity. Gone are the extraneous but interesting tidbits about the craft that one found in the original version.

This book, available in both hard- and softcover, contains more than 250 pages of instruction sectioned into two basic parts: information about slate and slating, and slate installation details. The latter includes more than 100 pages of best-practice and alternate installation details. Winner of a Gold Circle Award from the National Roofing Contractors Association and in development for five years, this manual is an invaluable asset to all slate specifiers and detailers.


Softcover – $85.00
Hardcover – $120.00
Print book/CD combo – $400.00

Whole Building Air Leakage: Testing and Building Performance Impacts

Editors: Theresa Weston, Katherine Wissink, and Keith Nelson

In emerging fields, such as whole-building air leakage testing, consultants frequently compile references and case studies to better their practice and publish lessons learned to fortify the state of the art. In this regard, the compilation of papers contained in STP 1615, Whole Building Air Leakage: Testing and Building Performance Impacts, is a worthy addition to any consultant’s library.

STP 1615 contains 16 selected peer-reviewed papers from an ASTM symposium held in April 2018 that was sponsored by ASTM International Committee E06 on Performance of Buildings and Subcommittee E06.41 on Air Leakage and Ventilation Performance. Selected papers for the compilation covered the following general topics:

- Lessons learned from air leakage testing
- Modeling and analysis of air leakage and its link to energy use, occupant comfort, and moisture
- Project case studies on retrofits; historical buildings; and new commercial, educational, large, or net-energy structures
- Air leakage testing of building enclosure components

Papers will benefit those both new to whole-building air leakage testing and those more experienced.

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