Students in architecture, engineering, construction as well as other related fields are encouraged to participate in a student competition on The Architecture and Engineering of Sustainable Buildings. Team projects including students from different disciplines are very much encouraged.

OPEN CHALLENGE PROGRAM
The student competition calls for open submission designs for any building type larger than 100,000 square feet (9,300 square meters). Topics of interest include achieving sustainability through integrated design, construction and operation of buildings; energy generation, conservation; health issues; climate issues; water and wastewater; waste management; assessing building sustainability; material choice and selection; design vs. operation and ways to achieve net zero-energy buildings. Preference will be given to project with complex requirements, such as building types, climatic characteristics, use of advanced building systems and technologies, and those that demonstrate innovation and design excellence.

SCHEDULE
February 15, 2012           Registration Deadline (free registration)
May 17, 2012                Submission Deadline
Summer 2012                 Winners announced

COMPETITION SPONSORS
University of Illinois at Urbana-Champaign
    School of Architecture
    Department of Materials Science and Engineering
    College of Engineering
Adrian Smith + Gordon Gill Architecture
American Institute of Steel Construction (AISC)
Chicago Committee on High Rise Buildings (CCHRB)
National Science Foundation (NSF)
Perkins + Will
Skidmore Owings and Merrill (SOM)
Thornton Tomasetti
Wiss, Janney, Elstner Associates (WJE)
AWARDS
A distinguished group of experts to serve as members of the jury for the competition. The jury will begin review of submissions soon after the submission deadline. Student winners and their faculty sponsors will be notified of the competition results directly. A list of winning projects will be posted on the ACSA web site at www.acsa-arch.org.

In addition to recognition for their accomplishments, winning projects will receive monetary awards as follows.

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<th>First Place</th>
<th>Second Place</th>
<th>Third Place</th>
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<tbody>
<tr>
<td>Student(s)</td>
<td>$3,000</td>
<td>$2,000</td>
<td>$1,000</td>
</tr>
<tr>
<td>Faculty Sponsor(s)</td>
<td>$500</td>
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**Best use of Steel Award**
- Student(s) $3,000
- Faculty Sponsor(s) $500

A limited number of honorable mentions, with a prize of $500 each, may also be recognized at the jury’s discretion. Distribution of the awards among participants is up to the discretion of each team of students and faculty. We reserve the right to alter prize categories and designate special awards per discretion of the competition jury. Prize winning submissions will be exhibited at the 2012 ACSA Annual Meeting and at the 2012 AIA National Convention.

ELIGIBILITY
The competition is open to upper level students (third year or above, including graduate students) from architecture and engineering schools from all ACSA member schools. All student entrants are required to work under the direction of a faculty sponsor. Entries will be accepted for individual as well as team solutions. Teams must be limited to a maximum of three students. Submissions should be principally the product of work in a design studio or similar course. Projects previously completed (no earlier than January 2008) will not be considered.
FACULTY RESPONSIBILITY
The administration of the competition at each institution is left to the discretion of the faculty within the guidelines set forth in this document. Projects from the current or previous semesters (no earlier than January 2008) are welcome.

REGISTRATION
A faculty sponsor is required to enroll students by completing an online registration form (available at www.acsa-arch.org/competitions) by February 15, 2012. Complete a form for your entire studio or class or for each individual student or team of students participating. Students or teams wishing to enter the competition on their own must have a faculty sponsor, who should complete the form. There is no entry or submission fee to participate in the competition. Each registered student and faculty sponsor will receive a confirmation email that will include information on how the student(s) will upload final submissions online. Please add the email address competitions@acsa-arch.org to your address book to ensure that you receive all emails regarding your submission.

During registration the faculty will have the ability to add students, add teams, assign students to teams, and add additional faculty. Registration is required by February 15, 2012, but can be changed, edited, and added to until a student starts a final submission; then the registration is no longer editable. Faculty may assign a “Faculty Representative” to a registered student. This “Faculty Representative” will have access to change, edit, and add to the registration.

DIGITAL PRESENTATION FORMAT
Submissions must be designed on no more than four 20” x 20” digital boards. All boards are required to be uploaded through the ACSA website in Portable Document Format (PDF) or image (JPEG) files. Participants should keep in mind that preliminary review does not allow for the hanging end-to-end display of presentation boards. Accordingly, participants should not use text or graphics that cross over from board to board. The names of student participants, their schools, or faculty sponsors, must NOT appear on any of the submitted material.
REQUIRED DRAWINGS
Each presentation must directly address the criteria outlined in this announcement and must include (but are not limited to) the following required drawings: site plan showing the surrounding buildings, topography, and circulation patterns; floor plans; elevations and building sections sufficient to show site context and major program elements; large scale drawing(s), either orthographic or three dimensional, a three dimensional representation in the form of either an axonometric, perspective, or model photographs, one of which should illustrate the character of the project. Submission can also include analytical data, simulation results, or any other supporting evidence on the boards. Submission must include:
• 4 digital boards at 20” x 20”;
• a design essay or abstract;
• a building program.

Submissions that do not adhere to the program criteria outlined must provide a program brief (required for all entrants). Incomplete or undocumented entries will be disqualified. All drawings should be presented at a scale appropriate to the design solution and include a graphic scale and north arrow.

EVALUATION CRITERIA
Each faculty sponsor is expected to develop a system to evaluate the students’ work using the criteria set forth in this program. The evaluation process should be an integral part of the design process, encouraging students to scrutinize their work in a manner similar to that of the jury. The final result of the design process will be a submission of up to four presentation boards describing the design solution. In addressing the specific issues of the design challenge, submissions must clearly demonstrate the design solution’s response to the following requirements:
• An elegant expressive understanding of one or more aspects of sustainable design;
• An articulate mastery of formal concepts and aesthetic values;
• A mature awareness and innovative approach to environmental issues;
• A thorough appreciation of human needs and social responsibilities;
• A capability to integrate functional aspects of the problem in an architectural manner, and
• A capacity to derive a design with the maximum innovation and possibility.
THE ARCHITECTURE & ENGINEERING OF SUSTAINABLE BUILDINGS
2011-2012 STUDENT COMPETITION

COMPETITION WEBSITE
www.SustainableAE.com

DESIGN ESSAY OR ABSTRACT
A brief essay, 500 words maximum, (in English) is required as part of the submission describing the most important concepts of the design project. Keep in mind that the presentation should graphically convey the design solution and context as much as possible, and not rely on the design essay to convey a basic understanding of the project. The names of student participants, their schools, or faculty sponsors, must NOT appear in the design essay. This abstract is included in the final online submission, completed by the student(s) in a simple copy/paste text box.

ONLINE PROJECT SUBMISSION
Students are required to submit the final entries that must be uploaded through the ACSA Competition website at www.acsa-arch.org/competitions by 5:00 pm, Eastern Time, by May 17, 2012. If the Submission is from a team of students all student team members will have the ability to upload the digital files. Once the final submit button is pressed no additional edits, uploads, or changes can be made. Each student will receive a confirmation submission email notification. Students may “save” the submission and return, before the submission deadline, to complete.

The final Submission upload must contain the following:
• Each of the four 20"x20" boards uploaded individually as a high resolution Portable Document Format (PDF) or image (JPEG ) files;
• A design essay or abstract (simple copy/paste text box completed during submission);
• A competition program (2,000 word max in a simple copy/paste text box during submission).

Winning projects will be required to submit high resolution original files/images for use in competition publications and exhibit materials.
THE ARCHITECTURE & ENGINEERING OF SUSTAINABLE BUILDINGS
2011-2012 STUDENT COMPETITION

COMPETITION SPONSORS
We are very grateful to the competition sponsors for their support for this activity. Please visit www.SustainableAE.com/Sponsors.html for the latest list of sponsors.

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FOR MORE INFORMATION
Additional questions on the competition program and submissions should be addressed to:

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