



**MISSOURI
CHAPTER**



**American Concrete Institute
2015–2016 Honorary**

Luke and Billie Snell

Undergraduate Scholarship

PURPOSE: To honor long-time chapter members Luke Snell and Billie Snell by promoting the development of future engineers, construction managers, and architects the ACI Missouri Chapter has established the Honorary Luke and Billie Snell Undergraduate Scholarship Award. The annual award will provide financial assistance for undergraduate students with an interest in careers in concrete design, materials, or construction.

ELIGIBILITY: To receive consideration, a student must be currently enrolled or accepted into an undergraduate program at an institution located within the boundaries of the ACI Missouri Chapter. During the award year, the student should be enrolled in at least twelve academic credits per semester/quarter.

CRITERIA: The following criteria must be met by the applicant prior to receiving the award but not necessarily at the time of application:

1. Be currently enrolled for undergraduate study at a college or university engineering, construction management, architecture or materials department.
2. Maintain status as a full time student during the entire scholarship year.

SUBMISSION: A complete, typewritten application package must be received by the Student Activities Committee, Missouri ACI Chapter by 5pm **Friday, March 6, 2015**. The package shall include the following:

- a. Complete application form (attached below).
- b. Undergraduate transcripts. An unofficial transcript from your current institution is sufficient if it shows all credit from other institutions you have attended. Include high school transcript if you have fewer than 60 hours of college credit.
- c. Letter of enrollment or acceptance from an institution located within the ACI Missouri Chapter district.
- d. Two letters of recommendation addressing potential for growth, character, scholarship, and interest in concrete. At least one letter should be from a faculty member. Recommendations must be submitted directly to the ACI Missouri Chapter.

SELECTION OF AWARD RECIPIENTS: Upon receipt of all applications by the deadline of 5pm, **Friday, March 6, 2015**, the Student Activities Committee shall review the applications. Those applicants who have satisfactorily completed the application will be considered for the award by a three-member, ad-hoc Committee, approved by the Board of Directors and chaired by the Past President of ACI, Missouri Chapter. **Selection is based upon academic achievement and awards, relevant experience, quality of application including writing skills, and displayed interest in concrete.**

NUMBER, AMOUNT AND PAYMENT OF AWARD: The ACI Chapter will present two (2) awards of \$2,500 each. Awards will be announced at the annual meeting of the ACI Missouri Chapter held in conjunction with the Missouri Concrete Conference in Rolla, MO at noon on March 31st 2015. All winners and a guest will receive complementary tickets to this meeting and are encouraged to attend. Payment will be made in two installments at the beginning of Fall and Winter Semesters of the award year. If the student

fails to provide proof of registration for study for each of those semesters, the award will be forfeited.

APPLICATION

Due: Friday, March 6th 2015

AMERICAN CONCRETE INSTITUTE – MISSOURI CHAPTER LUKE AND BILLIE SNELL UNDERGRADUATE SCHOLARSHIP AWARD

PERSONAL INFORMATION

NAME: Alexis Schad	
ADDRESS: 6 Silver Oaks Lane Apt 4, Edwardsville, IL 62025	
TELEPHONE: 618 401 0281	EMAIL alexismschad@gmail.com

EDUCATION

INSTITUTION	DATES ATTENDED	CREDIT HOURS	GRADUATION DATE (If Applicable)
High School	2008-2012	n/a	May 2012
College	2013-present	73	May 2017 (expected)

COLLEGE STUDY

Institution: Southern Illinois University	Location: Edwardsville	
Date of Admission: Fall 2013	Period of Study: 2013-present (2017)	
Degree Expected: BA	Major Cnst Mgmt	Minor Business Admin
Previous MO-ACI scholarship winner? Yes ☐ , No ☒ If yes, when?:		

1. **Describe how you developed an interest in concrete. What aspects of concrete do you find most interesting? (Answers cannot exceed allotted space)**

The first time I worked with concrete, I was helping my boss, a self-made real estate developer and business owner, pour the foundation of a sunroom addition at his mother's house. After years in the business, he knew exactly what he was doing and walked me through the steps - I helped him strike and float the foundation, and at the end of the day he gave me a hand mag and told me to make it look nice. I did. This was my first experience with concrete and what initially piqued my interest in the material. Later, in a class, I learned more about concrete and even did some of my own research on it, discovering interesting projects like the University of Manitoba's work with canvas fabric formwork for architectural pieces. I think one of the most interesting things about concrete is its versatility: when one thinks of it initially, images of strength and utility in construction come to mind. However, used architecturally and artistically, especially in conjunction with interesting finishes, concrete can exhibit great beauty and grace. Few other materials possess such a duality. Additionally, I find mix design - and the sheer number of ingredient combinations possible to cater a batch of concrete to a very specific function - fascinating.

2. What is your experience with concrete? Include any practical experience gained through work, school, or personal activities.

In addition to the experience described above, I have also worked with concrete in my Construction Materials and Methods course (taught by Dr. Anne Werner), and am currently participating in my school's Undergraduate Research and Creative Activities (URCA) program as a research assistant for Dr. Werner. For my research, I create small batches of Portland cement mortar for beams and cubes which I then test for tensile and compression strengths under ASTM standards. The subject of interest in the research is the addition of corn starch to the mix designs and its effect on permeability, workability, and strength.

3. What courses relating to concrete have you taken or do you intend to take while in college? Include courses where only a portion of the curriculum is concrete-related.

Past: Construction Methods and Materials - This course covered elements of concrete (including admixtures) and their production, the scientific processes behind concrete, placement/finishing/etc, concrete in structures (foundations, post-tensioning, tilt-up, etc), mix designs, etc. We made concrete for strength testing several times and had 2 guest speakers from the concrete industry.

Future: Structural Systems

4. What careers are you interested in pursuing after you graduate? How do you feel that your chosen coursework will help you achieve your goals?

I have varied interests within the realm of the construction, including sustainable building design, historic restoration, and involvement in nonprofit organizations (particularly those which deal with construction). Whether I am involved in such endeavors from the design, business, or administrative side, and whichever of those fields I end up in, the end goal is to make the world a better place. My aim is to be involved in construction processes which 1) are planned and carried out in ways that are least detrimental to the earth and its inhabitants and 2) foster a sense of community and goodwill for end users of the projects. Obviously knowledge of construction management will be useful in such a field, and I believe my interests and worldviews, somewhat unique for a member of the construction industry, could help cultivate greater connections between construction and sustainability, ethics, and art.

REFERENCES

List the names of two people from whom you have requested recommendations be email or mailed to the ACI-MO Chapter at the address below.

NAME	TITLE	EMPLOYER	ADDRESS
Dr. Anne Werner	Assistant Professor	SIUe	awerner@siue.edu
Dr. Chris Gordon	Department Chair	SIUe	cgordon@siue.edu

I certify that the information contained in this application is true and that I have answered all of the questions to the best of my ability. I agree that I will notify the ACI Missouri Chapter immediately when my educational program is interrupted or changed in any manner that may jeopardize the intent of the award. I further agree that I will accept the award only as long as I successfully pursue the program of study I have described above and for which the reward was made.

Signature: Alexis Schach Date: 3/3/15

RETURN COMPLETED APPLICATION PACKAGE BY FRIDAY, MARCH 6TH 2015 TO:

dane.shaw@jacobs.com (PREFERED SUBMISSION METHOD)

or

Dane M. Shaw
Jacobs Engineering
501 N. Broadway
Saint Louis, MO 63102

Applicants are encouraged to **submit applications electronically**. Please make every attempt to submit in one email. Letters of reference should be sent directly either electronically or by mail.