

## **Daniel P. Jenny Research Fellowships 2014 - 2015**

Richard Miller, Chair of the PCI Research and Development Council is pleased to report that five \$35,000 Daniel P. Jenny Research Fellowships have been awarded for the 2014/2015 academic year. The dedicated volunteer members of the council evaluated 25 fellowship applications. Special thanks are due the PCI Producer members who worked with many universities in support of their proposals. The recipients are as follows:

### **Grouted Seismic Rebar Splice Connections for Precast Concrete Building and Bridge Structures**



#### **Theresa Aragon**

Notre Dame University

Faculty Advisor: Yahya (Gino) Kurama

Producer Support: Kerkstra Precast, Grandville, Michigan  
Prestress Services Industries, LLC, Lexington  
Kentucky

In her fellowship application, Theresa stated "I believe that this project, as described in the research proposal, has the potential to provide a practical advancement for precast construction along with having broad applicability in seismic regions."

### **Developing a General Methodology for Evaluating Composite Action in Insulated Wall Panels**



#### **Jaiden Olsen**

Utah State University

Faculty Advisor: Marc Maguire

Producer Support: Hanson Structural Precast, Salt Lake City, Utah  
Concrete Industries, Inc, Lincoln Nebraska

To quote Jaiden, "The possibilities that exist in industry improvement using precast insulated wall panels are vast, and to be a part of this would put me in an excellent position for a career in precast concrete design."

### **Progressive Collapse Resistance for Precast Concrete Frames: Design Criteria and Connection Detailing**



#### **Corey Fallon**

Lehigh University

Faculty Advisor – Spencer Quiel

Producer Support – Metromont, Greenville, South Carolina  
EnCon, Denver, Colorado  
Slaw Precast, Lehigh, Pennsylvania

Corey stated in his fellowship application "Aside from the overarching goal of helping to ensure the safety of the public, the level of problem solving required and the complexity of the potential solution have

driven my interest in this project.”

### **Investigating Practical Solutions to Mitigate Longitudinal Splitting Cracking in Pretensioned Concrete Members with Low Concrete Cover**



**Robert Schweiger**

Kansas State University  
Faculty Advisor – Robert Peterman  
Producer Support – Knife River, Harrisburg, Oregon  
Altus Group, Lancaster, Pennsylvania

Robert stated, “Finding a way to minimize the loss of strength due to cracking in members with low cover would be very beneficial in the prestressed concrete industry.”

### **Economically and Environmentally Efficient Foam-Void Double Tees**



**Srimaruthi Jonnalagadda**

Clemson University  
Faculty Advisor – Brandon Ross  
Producer Support – Tindall Corporation, Conley, Georgia

Sri stated in his fellowship application “The objective of this study is to reduce the dead load of these members, and thereby boost the engineering and construction efficiency of the precast companies by letting them build and transport longer spans and bigger sections more economically.”

The Research and Development Council has assigned an industry advisory committee to work with each of these fellowship recipients. Contact [rbecker@pci.org](mailto:rbecker@pci.org) if you have an interest in participating in or contributing to any of this work.