



American  
Concrete  
Institute



Zachodniopomorski  
Uniwersytet  
Technologiczny  
w Szczecinie

# ACI Student Chapter West Pomeranian University of Technology

Adam Zieliński,  
Szymon Skibicki

The Concrete Convention  
and Exposition



West Pomeranian University  
Student Chapter

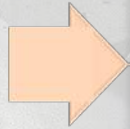


Las Vegas, 15th October 2018



## Plan of Presentation:

History Chapter



Construction Site Trip



Concrete Research



3D Concrete Printer



# History Chapter

May 7, 2018 - Application

May 14 – Decision - YES!

July 16 – Banner from ACI!



Zachodniopomorski  
Uniwersytet  
Technologiczny  
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**Student Chapter Organizing Petition**

The undersigned hereby certify that we are members of the American Concrete Institute (ACI) and are hereby petitioning the American Concrete Institute to establish a Student Chapter of ACI at the University of Technology in Szczecin.

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**ACI Member #**

1. Andrzej Kozłowski	ACI Member #	1194497
2. Marek Półtorak	ACI Member #	1194507
3. Włodzisław Gajda	ACI Member #	1194512
4. Karol Fiedorowicz	ACI Member #	1194515
5. Marcin Górecki	ACI Member #	1194518

**ACI** American Concrete Institute

May 14, 2018

Dear Sirs,

I am pleased to announce the proposed petition to form the above captioned student Chapter of ACI at the University of Technology in Szczecin, Poland.

The student Chapter will function as a section of, and be responsible to, the sponsoring professional Chapter. The sponsor, who is a faculty member of the above captioned school, a member of the sponsoring professional Chapter, and a member of ACI, has agreed to serve as advisor to the student Chapter.

Student Chapters are meant to provide a means of advancing the interests of ACI and to further its primary objectives. The ACI Board of Directors and its committees, governing the establishment and operation of Chapters, are responsible for ensuring the advancement and objectives of ACI. The ACI Board of Directors may, at any time, terminate the existence of any Chapter when in the Board's sole judgment, the interests of ACI require such action.

Student Chapters may only be permitted to conduct such activities as shall conform to and be in accordance with the published aims and objectives of ACI. The advisor and student officers & directors are not entitled to speak for ACI in any matter or entitled to incur financial obligations of any kind binding upon ACI unless authorized by ACI.

**Student ACI Memberships**

All members of the student Chapter are required to maintain ACI student Membership which is provided free of charge. This Membership provides a connection to ACI and digital access to the member's profile, which contains their Name, Address and Phone, for ACI University course listings for use as a study center, as well as the ACI website, ACI International Magazine, ACI Student Journal, and ACI Member Journal. Students are also able to search archived articles from and purchase and use ACI eLearning resources for their studies.

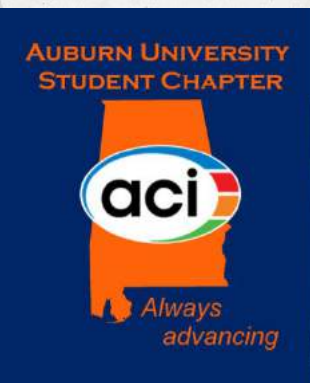
**ACI Student Research**

The Faculty Advisor is required to serve as a consultant between ACI and university faculty with the objective to encourage and support student interest in concrete engineering and construction through

Always advancing



ACI S.C. cooperate – Auburn S.C. ACI





## Construction Site Trip

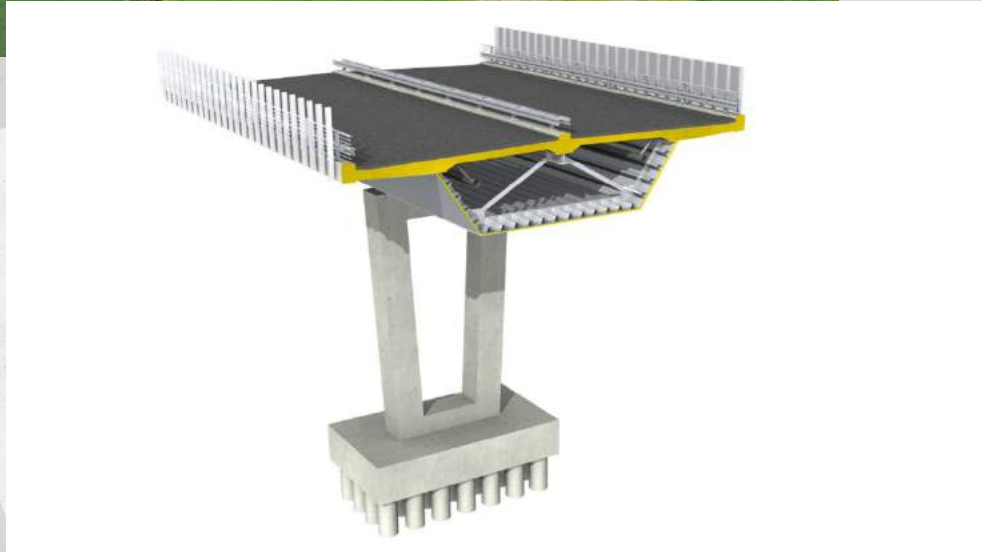
**May 19, 2018 – Trip to Polymer Concrete Factory - BetonStal**





## Construction Site Trip

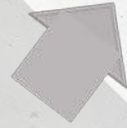
**June 14, 2018 – Trip to Factory of prefabricated reinforced concrete segments for bridge**





## Construction Site Trip

July 6, 2018 – Trip to Posejdon Center Construction Site in Szczecin





## Research

# Self-consolidating mortars + fibre

glass  
fibre



=

+

without fibre



Slump flow: 26.8cm

+

polypropylene  
fibre



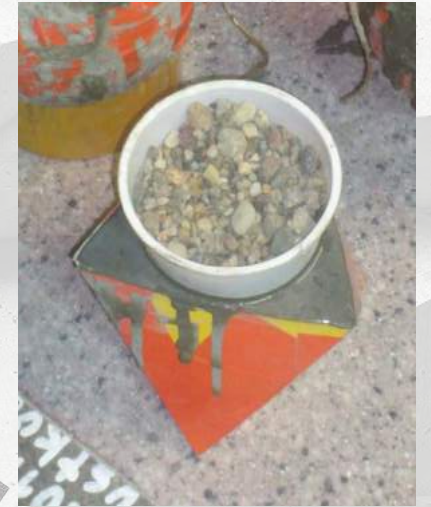
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## Research

# Candlesticks of colored concrete





# Research





Research

Visualisation





## Research





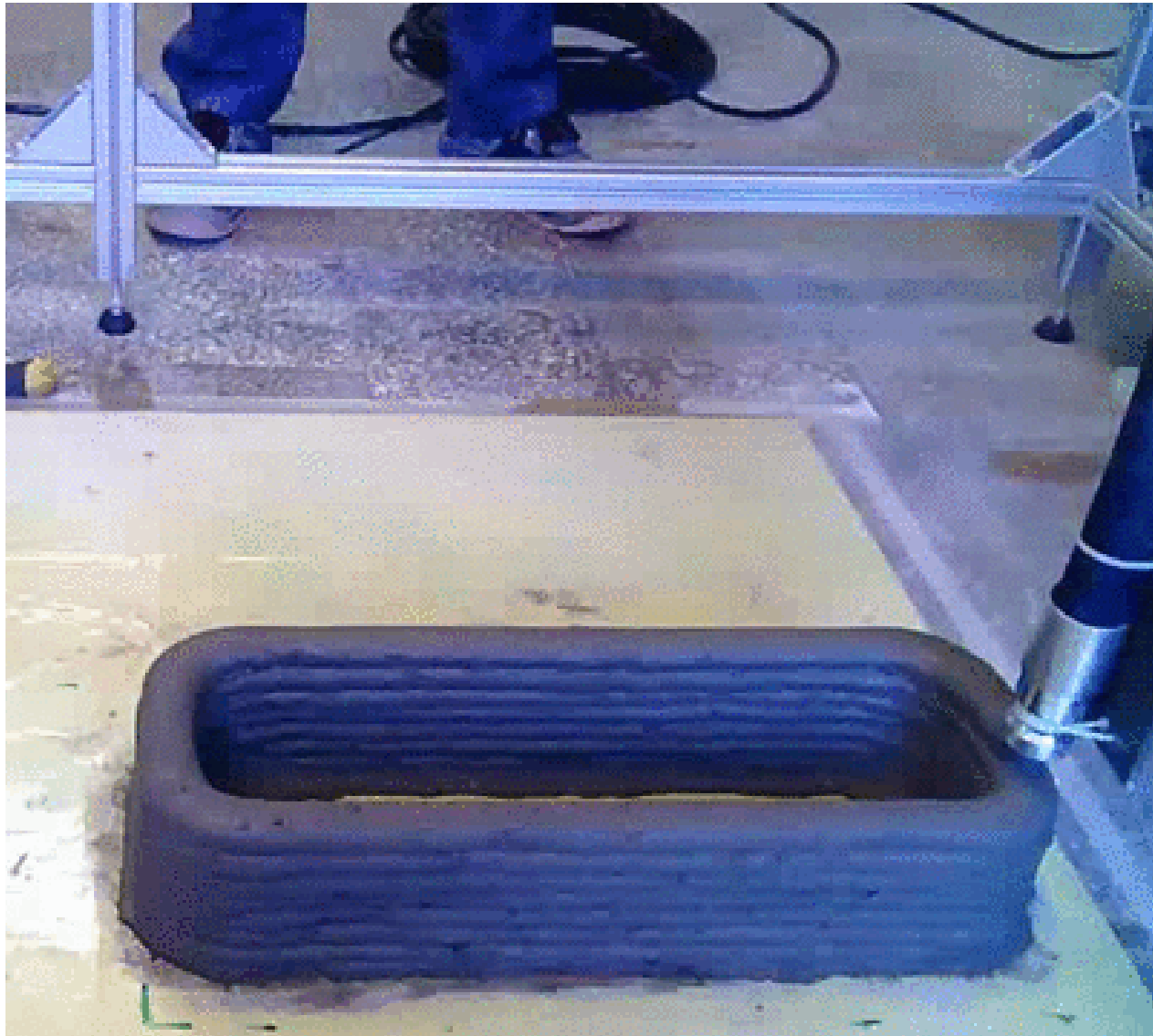
## 3D Concrete Printer

 **3D**  
**CONCRETE LINE**





## 3D Concrete Printer









# 3D Concrete Printer

**Bowls**



**Concrete walls**



**Measurement  
shrinkage concrete**







# Thank you for Attention!

